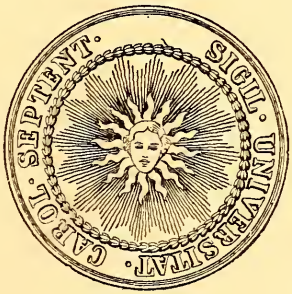
# University

OF

# North Carolina

## CATALOGUE

## 1893-'94




**Chartered 1789**

1894.
ISSUED FROM THE UNIVERSITY PRESS,
CHAPEL HILL, N. C.

## CALENDAR.

1894.

| | | |
|---|---|---|
| *September 4,* | *Tuesday,* | Entrance Examinations. |
| *September 5,* | *Wednesday.* | Entrance Examinations and Registration. |
| *September 6,* | *Thursday.* | Session begins. |
| *October 12,* | *Friday.* | University Day. |
| *October 12,* | *Friday.* | President's Reception. |
| *November 29,* | *Thursday.* | Thanksgiving Day. |
| *December 21,* | *Friday,* | Christmas Recess begins. |

1895.

| | | |
|---|---|---|
| *January 2,* | *Wednesday.* | Entrance Examinations. |
| *January 3,* | *Thursday.* | Entrance Examinations and Registration. |
| *January 4,* | *Friday.* | Second Term begins. |
| *February 22,* | *Friday.* | Washington's Birthday. |
| *May 1,* | *Wednesday.* | Senior Orations. |
| *June 2,* | *Sunday.* | Baccalaureate Sermon. |
| *June 4,* | *Tuesday.* | Meeting of the Board of Trustees. |
| *June 4,* | *Tuesday.* | Anniversary Meeting of the Alumni. |
| *June 4,* | *Tuesday.* | Senior Class Day. |
| *June 4,* | *Tuesday.* | Dialectic and Philanthropic Society Orations. |
| *June 4,* | *Tuesday.* | Faculty Reception. |
| *June 5,* | *Wednesday.* | Commencement Day. |
| *June 6,* | *Thursday.* | Examinations for Admission. |

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# GOVERNMENT OF THE UNIVERSITY.

THE UNIVERSITY is a State instituion for the higher education of young men. It is governed by a Board of Trustees elected by the legislature, and is free from sectional, sectarian or political control. The Governor of the State is *ex officio* President of the Board and the Superintendent of Public Instruction is *ex officio* a trustee. The University was established in obedience to a clause of section 41 of the Constitution of the State, adopted on the 18th of December 1776, viz: "All useful learning shall be duly encouraged and promoted in one or more Universities." The charter was granted in 1789, the corner-stone of the Old East Building was laid in 1793, and the University was opened in 1795.

The title, the preamble and the first section of the act of incorporation are as follows;

AN ACT TO ESTABLISH A UNIVERSITY IN THIS STATE.

(PASSED BY THE GENERAL ASSEMBLY AT THE SESSION OF 1789.)

WHEREAS, In all well regulated governments it is the indispensable duty of every Legislature to consult the happiness of a rising generation, and endeavor to fit them for an honorable discharge of the social duties of life by paying the strictest attention to their education; and

WHEREAS, A University, supported by permanent funds and well endowed, would have the most direct tendency to answer the above purpose:

1. *Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same,* That Samuel Johnson, James Iredell, Charles Johnson, Hugh Williamson, Stephen Cabarrus, Richard Dobbs Spaight, William Blount, Benjamin Williams, John Sitgreaves, Frederick Hargett, Robert W. Snead, Archibald Maclaine, Honorable Samuel Ashe, Robert Dixon, Benjamin Smith, Honorable Samuel Spencer, John Hay, James Hogg, Henry William Harrington, William Barry Grove, Reverend Samuel McCorkle, Adlai Osborne, John Stokes, John Williams, John Hamilton, Joseph Graham, Honorable

John Williams, Thomas Person, Alfred Moore, Alexander Mebane Joel Lane, Willie Jones, Benjamin Hawkins, John Haywood, senior, John Macon, William Richardson Davie, Joseph Dixon, William Lenoir, Joseph McDowell, James Holland, andWilliam Porter, Esquires, shall be and they are hereby declared to be a body politic and corporate, to be known and distinguished by the name of "The Trustees of the Universitv of North Carolina*," and by that name shall have perpetual succession, and a common seal; and that they, the Trustees and their successors, by name aforesaid, or a majority of them, shall be able and capable in law to take, demand, receive and possess all moneys, goods and chattels that shall be given them, for the use of the said University, and the same apply according to the will of the donors, and by gift, purchase or devise to take, have, receive, possess, enjoy and retain to them and their successors forever, any lands, rents, tenements and hereditaments, of what kind, nature or quality soever the same may be, in special trust and confidence, that the same or the profits thereof shall be applied to and for the use and purposes of establishing and endowing the said University.

The present constitution of the State, adopted in 1876, contains the following provisions regarding the University.

ART. IX. SEC. 6. The General Assembly shall have power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges rights, franchises and endowments thereof, in anywise granted to or conferred upon the Trustees of said University; and the General Assembly may make such provisions, laws and regulations from time to time as may be necessary and expedient for the maintenance and management of said University.

SEC. 7. The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition; also, that all the property which has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estates of deceased persons, shall be appropriated to the use of the University.

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*The corporate name has been changed to "The University of North Carolina."

# HISTORICAL STATEMENT.

SHOWING THE GROWTH OF THE UNIVERSITY.

| | | |
|---|---|---|
| 1776. | December 18. | The people ordain the establishment of the University of North Carolina. |
| 1789. | | The Charter granted by the General Assembly. |
| 1793. | October 12. | The Corner-stone laid. |
| 1795. | January 15. | The doors opened for students. |
| 1804. | July 11. | The first President, JOSEPH CALDWELL elected. |
| 1821. | | Amended charter. Trustees elected by the General Assembly. |
| 1836. | January 20. | Accession of DAVID LOWRY SWAIN as President. |
| 1875. | | Inauguration of the Elective System. |
| 1876. | July 1. | Accession of KEMP PLUMMER BATTLE as President. |
| 1883. | | Erection of Memorial Hall. |
| 1886. | | Inauguration of resident Post-Graduate Courses. |
| 1891. | July 2. | Accession of GEORGE TAYLOE WINSTON as President. |

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# TRUSTEES.

His Excellency, ELIAS CARR, Governor, *ex officio* President of the Board
JOHN C. SCARBOROUGH, Supt. Public Instruction, *ex officio*.
RICHARD H. BATTLE, Secretary and Treasurer.

## 1895.*

| | |
|---|---|
| Charles B. Aycock | Wayne. |
| A. D. Betts, | N. C. Conference. |
| W. H. S. Burgwyn, | Vance. |
| Charles A. Cook, | Warren. |
| John D. Currie, | Bladen. |
| George Davis, LL. D., | New Hanover. |
| W. T. Faircloth, | Wayne. |
| M. H. Holt, | Guilford. |
| John W. Graham, | Orange. |
| H. A. Gudger, | Buncombe. |
| Thos. M. Holt, | Alamance. |
| Wm. Johnston, | Mecklenburg. |
| A. Leazar, | Iredell. |
| W. S. Long, | Alamance. |
| Chas. D. McIver, | Guilford. |
| Hamilton C. McMillan, | Robeson. |
| John Manning, LL. D. | Orange. |
| Robert B. Peebles, | Northampton. |
| Solomon C. Weill, | New Hanover. |
| Frank D. Winston, | Bertie. |

## 1897.

| | |
|---|---|
| W. S. Black, D. D. | Granville. |
| C. M. Cooke, | Franklin. |
| Rufus A. Doughton, | Alleghany. |
| P. D. Gold, | Wilson. |
| R. T. Gray, | Wake. |
| T. J. Jarvis, LL. D., | Pitt. |
| H. C. Jones, | Mecklenburg. |

*The legal term expires November 30 of the year indicated.

| | |
|---|---|
| P. L. Murphy, M. D., | Burke. |
| Wm. J. Peele, | Wake. |
| Wm. D. Pruden, | Chowan. |
| Wallace Riddick, | Wake. |
| N. J. Rouse, | Lenoir. |
| Robert W. Scott, | Alamance. |
| Frank S. Spruill, | Franklin. |
| N. A. Sinclair, | Cumberland. |
| J. L. Stewart, | Sampson. |
| *Isaac R. Strayhorn, | Orange. |
| S. McD. Tate, | Burke. |
| James W. Todd, | Ashe. |
| H. D. Williamson, M. D., | Columbus. |

**1899.**

| | |
|---|---|
| K. P Battle, LL. D., | Orange. |
| Chas R. Thomas, | Craven. |
| Marsden Bellamy, | New Hanover. |
| G. S. Bradshaw, | Randolph. |
| Marion Butler, | Sampson. |
| Fabius H. Busbee, | Wake. |
| Bennehan Cameron, | Orange. |
| John W. Fries, | Forsyth. |
| R. M. Furman, | Buncombe. |
| Thos. S. Kenan, | Wake. |
| Richard H. Lewis M. D., | Wake. |
| J. A. McIver, | Moore. |
| W. N. Mebane, | Rockingham. |
| A. H. Merritt, | Chatham. |
| J. D. Murphy, | Buncombe. |
| Fred. Philips, | Edgecombe. |
| J. L. Patterson, | Forsyth. |
| John W. Starnes, | Buncombe. |
| Z. B. Vance, LL. D., | Mecklenburg. |
| James W. Wilson, | Burke. |

**1901.**

| | |
|---|---|
| W. R. Allen, | Wayne. |
| A. B. Andrews, | Wake. |
| Richard H. Battle, | Wake. |
| Jacob Battle, | Nash. |

*Dead.

| | |
|---|---|
| J. P. Caldwell, | Mecklenburg. |
| Julian S. Carr, | Durham. |
| Wm. H. Day, | Halifax. |
| S. M. Finger, | Catawba. |
| R. D. Gilmer, | Haywood. |
| Augustus W. Graham, | Granville. |
| A. W. Haywood, | Wake. |
| Wm. E. Hill, | Duplin. |
| E. Jones, | Caldwell. |
| Thos. A. McNeill, | Robeson. |
| Thos. W. Mason, | Northampton. |
| Paul B. Means, | Cabarrus. |
| Lee S. Overman, | Rowan. |
| James Parker, | Gates. |
| Thos. H. Pritchard, D. D., | Mecklenburg. |
| David G. Worth, | New Hanover. |

EXECUTIVE COMMITTEE.

Governor ELIAS CARR, Chairman.

| | |
|---|---|
| A. B. ANDREWS, | THOS S. KENAN, |
| RICHARD H. BATTLE, | RICHARD H. LEWIS. |
| JULIAN S. CARR, | CHAS. D. MCIVER, |
| JOHN W. GRAHAM, | JOHN C. SCARBOROUGH, |

JAMES W. WILSON.

COMMITTEE OF ANNUAL INSPECTION.

R. A. DOUGHTON, Chairman.

| | |
|---|---|
| R. T. GRAY, | J. L. STEWART. |
| W. T. FAIRCLOTH, | D. G. WORTH. |

# FACULTY AND INSTRUCTORS.*

GEORGE TAYLOE WINSTON, LL. D., President,
*Professor of Political and Social Science.*

---

KEMP PLUMMER BATTLE, LL. D.,
*Professor of History.*
(Chair endowed by the Alumni Association.)

FRANCIS PRESTON VENABLE, Ph. D.,
*Professor of General and Analytical Chemistry.*
(Chair endowed by Mary Ann Smith.)

JOSEPH AUSTIN HOLMES, B. S.,
*State Geologist and Lecturer on Geology of North Carolina.*

JOSHUA WALKER GORE, C. E.,
*Professor of Natural Philosophy.*

JOHN MANNING, LL. D.,
*Professor of Law.*

THOMAS HUME, D. D., LL. D.,
*Professor of the English Language and Literature.*

WALTER DALLAM TOY, M. A.,
*Professor of Modern Languages.*

EBEN ALEXANDER, PH. D., LL. D.,†
*Professor of the Greek Language and Literature.*

WILLIAM CAIN, C. E.,
*Professor of Mathematics.*

RICHARD HENRY WHITEHEAD, M. D.,
*Professor of Anatomy, Physiology and Materia Medica.*

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*Arranged, with the exception of the President, in the order of accession to office.

†Minister to Greece, Roumania and Servia, on leave of absence from the University.

HENRY HORACE WILLIAMS, A. M., B. D.,
*Professor of Mental and Moral Science.*

HENRY VAN PETERS WILSON, PH. D.,
*Professor of Biology.*

KARL POMEROY HARRINGTON, A. M.,
*Professor of the Latin Language and Literature.*

JAMES E. SHEPHERD, LL. D.,
*Chief Justice of the Supreme Court of North Carolina, and Associate Professor of Common and Statute Law and Equity in Summer Law School.*

COLLIER COBB, A. B.,
*Professor of Geology and Mineralogy.*

EDWIN ANDERSON ALDERMAN, PH. B.,
*Professor of History and Philosophy of Education.*

HERBERT CUSHING TOLMAN, PH. D.,
*Professor of Sanskrit and Acting Professor of Greek.*

---

CHARLES BASKERVILLE, B. SC.,
*Instructor in Chemistry.*

THOMAS ROSWELL FOUST, B. E.,
*Instructor in Mathematics.*

JAMES THOMAS PUGH, A. B.,
*Instructor in Latin.*

_____ _____
*Instructor in Modern Languages.*

_____ _____
*Instructor in English.*

---

CHARLES HENRY WHITE,
*Assistant in Physical Laboratory.*

WILLIAM RAND KENAN, JR.,
*Assistant in Chemical Laboratory.*

ROBERT PALEMON JENKINS,
*Assistant in Biological Laboratory.*

GEORGE GULLETT STEPHENS,
*Instructor in Physical Culture.*

---

JOSHUA WALKER GORE, C. E.,
*Secretary and Registrar.*

W. T. PATTERSON,
*Bursar.*

EDWIN ANDERSON ALDERMAN, PH. B.,
*Librarian.*

FORDYCE CUNNINGHAM HARDING, PH. B.,
*Assistant Librarian.*

---

WALTER MURPHY,
*Secretary in the President's Office.*

---

## *UNIVERSITY CHAPLAINS.*

(FOR CONDUCTING CHAPEL SERVICES.)

REV. JOHN L. CARROLL, A. M., D. D.,
REV. JAMES E. FOGARTIE, A. M., PH. D.,
REV. FREDERICK TOWERS, A. B.,
REV. N. M. WATSON,
REV. J. W. M. WILLIAMS, D. D.

# STUDENTS.

## *GRADUATES.*

Charles Baskerville, B. S., *Chem.*, *Geol.*, Columbus, Miss.
University of North Carolina, 1892.

John Wooten Graham, A. B., *Eng.*, *Lat.*, *P. Ec.*, Keyser.
University of North Carolina, 1890.

Archie Hendon McFadyen, B. Litt., *Geol.*, *Biol.*, Clarkton.
University of North Carolina, 1893.

James Thomas Pugh, A. B., *Lat.*, *Greek*, *Sans.*, *Ger.*, *Saxon*, Morrisville.
University of North Carolina, 1893.

Frederick Towers, A. B., *German*, Chapel Hill.
University of New Brunswick, 1877.

George Stockton Wills, Ph.B., *Eng.*, *Fr.*, *Hist.*, Oak Ridge.
University of North Carolina, 1889.

Delonza Tate Wilson, A. B., *Eng.*, *Lat.*, *Hist.*, Dunn.
University of North Carolina, 1887.

## *UNDERGRADUATES.*

### Seniors.

| | | |
|---|---|---|
| Atkinson, Hugh Hamilton, | *Science*, | Asheville. |
| Barnes, Leslie Edwin, | *Letters*, | Wilson. |
| Benbow, Frank Byron, A. B., Guilford College, 1891. | *Arts*, | East Bend. |
| Brawley, Espy Watts, | *Science*, | Mooresville. |
| Brown, Thos. Evans Westman, | *Engineering*, | Asheville. |
| Currie, Wm. Pinkney Martin, | *Arts*, | West End. |
| Ellis, Alexander Caswell, | *Arts*, | Louisburg. |
| Gillespie, Ernest Eugene, A. B., Guilford College, 1893. | *Arts*, | Greensboro. |
| Harding, William Frederick, | *Philosophy*, | Greenville. |
| Harris, James Robert, | *Science*, | Raleigh. |
| Hickerson, Lyttle Nowlen, | *Letters*, | Ronda. |
| Hodgin, Simon Addison, B. S., Guilford College, 1891. | *Philosophy*, | Greensboro. |

| | | |
|---|---|---|
| Honeycutt, Samuel Tilden, | *Philosophy*, | Clayton. |
| Kenan, William Rand, Jr., | *Science*, | Wilmington. |
| Lee, Benjamin Rush, | *Science*, | Charlotte. |
| Lee, Thomas Bailey, | *Arts*, | Mocksville. |
| Little, George Roscoe, | *Philosophy*, | Bethel. |
| Oldham, Jesse Morrow, | *Arts*, | Oaks. |
| Petty, George Edward, | *Science*, | Greensboro. |
| Roberson, Charles, | *Science*, | Chapel Hill. |
| Rollins, Thomas Scott, | *Letters*, | Asheville. |
| Sawyer, James, | *Philosophy*, | Asheville. |
| Smith, Thomas Carlisle, Jr., | *Philosophy*, | Asheville. |
| Snipes, Eugene Malcolm, | *Philosophy*, | Lambsville. |
| Stanford, Elisha David, B. S., Guilford College, 1891. | *Philosophy*, | East Bend. |
| Swink, Louis Melancthon, | *Arts*, | Winston. |
| Toms, Nathan, | *Philosophy*, | Hertford. |
| Van Noppen, Charles Leonard, | *Letters*, | Durham. |
| White, Charles Henry, | *Science*, | Ledger. |
| Wilson, Thomas James, Jr., | *Arts*, | Chapel Hill. |
| Yates, Joseph Walker, | *Science*, | Wilmington. |

**Juniors.**

| | | |
|---|---|---|
| Alexander, Joe Eli, | *Philosophy*, | Columbia. |
| Allen, Wilmot Brown, | *Arts*, | Florence, S. C. |
| Bingham, Herbert, | *Arts*, | Mebane. |
| Borden, Murray, | *Philosophy*, | Goldsboro. |
| Briles, Charles Walter, | *Letters*, | Eden. |
| Brogden, Lantrec Cranmer, | *Philosophy*, | Goldsboro. |
| Bryant, Henry Edward Cohen, | *Science*, | Pineville, |
| Bryson, Thaddeus Dillard, | *Letters*, | Bryson City. |
| Carpenter, George Humphrey, | *Arts*, | Franklin. |
| Carr, Frederick Louis, | *Philosophy*, | Castoria. |
| Carr, James Osborne, | *Philosophy*, | Xenia. |
| Dawson, Walter Wooten, | *Letters*, | Littlefield. |
| Graham, William Alexander, | *Arts*, | Hillsboro. |
| Horne, Herman Harrell, | *Arts*, | Clayton. |
| Howell, Harry, | *Philosophy*, | Goldsboro. |
| Kimball, Ashbel Brown, | *Philosophy*, | Hargrove. |
| Kluttz, William Clarence, | *Arts*, | Salisbury. |
| Lindsey, Dudley, | *Engineering*, | Frankfort, Ky. |
| Little, Thomas Robinson, | *Science*, | Little's Mills. |
| McAlister, John Worth, | *Philosophy*, | Ashboro. |
| McAlister, William Claudius, | *Arts*, | Tatum, S. C. |
| McKinne, Frank Brothers, | *Engineering*, | Princeton. |

| | | |
|---|---|---|
| McRae, Daniel K., | *Arts*, | Laurinburg. |
| Mattocks, John Edwards, | *Science*, | Pollocksville. |
| Moore, John Allen, | *Arts*, | Oaks. |
| Myers, Edward Warren, | *Engineering*, | Washington. |
| Nicholson, David Flowers, | *Arts*, | Westbrook. |
| Patterson, John Legerwood, | *Science*, | Salem. |
| Price, Augustus Hobson, | *Letters*, | Salisbury. |
| Quickel, Augustus Lee, | *Letters*, | Lincolnton. |
| Robertson, William Ross, | *Letters*, | Charlotte. |
| Scott, William Levy, | *Letters*, | Greensboro. |
| Steele, Robert Thomas Stephen, | *Science*, | Rockingham. |
| Thompson, Holland McTyeire, | *Philosophy*, | Statesville. |
| Turner, Charles Root, | *Arts*, | Raleigh. |
| Weaver, William Jackson, | *Letters*, | Asheville. |
| Weil, Leslie, | *Philosophy*, | Goldsboro. |
| Yount, Marshall Hill, | *Arts*, | Conover. |
| Zachary, Robert Edgar, | *Philosophy*, | Jeptha. |

**Sophomores.**

| | | |
|---|---|---|
| Allsbrook, Richard Gold, | *Arts*, | Scotland Neck. |
| Bahnson, Frederick Fries, | *Philosophy*, | Salem. |
| Baker, George Spencer, | *Philosophy*, | Louisburg. |
| Boger, John Derr, | *Philosophy*, | Morganton. |
| Boyce, Watson Samuel, | *Arts*, | Sardis. |
| Braswell, Thomas Pleasant, Jr., | *Philosophy*, | Battleboro. |
| Brem, Walter Vernon, Jr., | *Science*, | Charlotte. |
| Bryson, Daniel Rice, | *Philosophy*, | Bryson City. |
| Buie, Daniel Marcus, | *Letters*, | Clarkton. |
| Canada, John William, | *Arts*, | Summerfield. |
| Canaday, Percy, | *Engineering*, | Southport. |
| Carmichael, William Donald, Jr., | *Philosophy*, | Little Rock, S.C. |
| Carr, Edward Parrish, | *Arts*, | Durham. |
| Carroll, Judson Clifford, | *Philosophy*, | Raleigh. |
| Clarke, Thomas, | *Science*, | Winston. |
| Coble, John Hamilton, | *Arts*, | Laurinburg. |
| Coker, Robert Ervin, | *Science*, | Darlington, S.C. |
| Cooke, Francis Neal, | *Arts*, | Louisburg. |
| Craig, James Robert, | *Science*, | Gastonia. |
| Denson, Eugene Grissom, | *Letters*, | Raleigh. |
| Dockery, Alfred Settle, | *Philosophy*, | Rockingham. |
| Eller, John Carlton, | *Philosophy*, | Berlin. |
| Emry, Charles Ransom, | *Science*, | Weldon. |
| Evans, Leslie Ballard, | *Arts*, | Idaho. |
| Graham, Eugene Berrien, | *Arts*, | Charlotte. |

| | | |
|---|---|---|
| Gray, Robert Lilly, | *Arts*, | Raleigh. |
| Gregory, Edwin Clark, | *Arts*, | Halifax. |
| Guion, Louis Isaac, | *Letters*, | Charlotte. |
| Gwyn, James Alfred, | *Philosophy*, | Spring Dale. |
| Hammond, Alexander Hugh, Jr., | *Science*, | Charlotte. |
| Hampton, Harry Reid, | *Arts*, | Minneapolis, Minn |
| Harllee, William Curry, | *Philosophy*, | Manatee, Fla. |
| Harris, Henry Spencer, | *Arts*, | Falkland. |
| Harty, Frank Ryan, | *Philosophy*, | Charlotte. |
| Hollowell, James Gatling, | *Philosophy*, | Elizabeth City. |
| Hooker, Thomas Menan, | *Science*, | Hookerton. |
| Jenkins, Robert Palemon, | *Philosophy*, | Elizabeth City. |
| John, Peter, | *Letters*, | John Station. |
| Koonce, Charles Duffy, | *Letters* | Richlands. |
| Lemly, William Belo, | *Science*, | Winston. |
| Liles, Samuel Tilden, | *Arts*, | Archer Lodge. |
| Little, Judge Elder, | *Arts*, | Long's Store. |
| London, Arthur Hill, | *Letters*, | Pittsboro. |
| McCall, Harllee, | *Arts*, | Statesville. |
| McKenzie, Ernest Brandon, | *Science*, | Salisbury. |
| Mitchell, Wayne Adolphus, | *Letters*, | Kinston. |
| Nooe, John Francis, | *Philosophy*, | Shelby. |
| Philips, George Cullen, | *Philosophy*, | Battleboro. |
| Rankin, James Guy, | *Science*, | Asheville. |
| Riggsbee, Frederick Lee, | *Arts*, | Riggsbee's Store. |
| Robbins, Alfred Hargrave, | *Philosophy*, | Lexington. |
| Roberson, Wescott, | *Arts*, | Chapel Hill. |
| Roberts, Fred Wallace, | *Philosophy*, | Asheville. |
| Robertson, Henry Greene, | *Philosophy*, | Franklin. |
| Sanford, Thomas Franklin, | *Letters*, | Mocksville. |
| Shaffner, John Francis, Jr., | *Philosophy*, | Salem. |
| Sharp, Henry Talbot, | *Arts*, | Portsmouth, Va. |
| Sharpe, Thomas Allen, | *Philosophy*, | Pineville. |
| Sherfesee, Louis, Jr., | *Science*, | Rock Hill, S. C. |
| Smith, William Cunningham, | *Arts*, | Greensboro. |
| Stanly, Benjamin Edward, | *Philosophy*, | Kinston. |
| Stephens, George Gullett, | *Philosophy*, | Greensboro. |
| Thompson, Walter Rice, | *Philosophy*, | Statesville. |
| VanLandingham, Ralph, | *Philosophy*, | Charlotte. |
| Webb, John Frederick, | *Arts*, | Stem. |
| Webb, William Robert, Jr., | *Arts*, | Bell Buckle, Tenn. |
| West, John Townley, | *Letters*, | Raleigh. |
| White, Joseph Harvey, | *Science*, | Graham. |
| White, James Samuel, | *Arts*, | Mebane. |

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|---|---|---|
| Wiley, David Harding, | *Science*, | Winston. |
| Williams, Joseph Solon, | *Arts*, | Clover. |
| Wills, Richard Thomas, | *Arts*, | Greensboro. |
| Wittson, Girard Samuel, | *Philosophy*, | Charlotte. |
| Woodson, Walter Henderson, | *Science*, | Salisbury. |
| Yates, Charles Watson, Jr., | *Science*, | Wilmington. |

**Freshmen.**

| | | |
|---|---|---|
| Abbott, Edward Lawrence, | *Arts*, | South Mills. |
| Adderton, James, | *Letters*, | Lexington. |
| Allen, Arch Turner, | *Philosophy*, | York Institute. |
| Allen, Marion Lucas, | *Letters*, | Florence, S. C. |
| Andrews, John Hawkins, | *Arts*, | Raleigh. |
| Armstrong, Harvey, | *Arts*, | Bryan, Texas. |
| Austin, Willis Hinton, | *Arts*, | Clayton. |
| Bagwell, Edward Elbert, | *Arts*, | Garner. |
| Bailey, Fletcher Hamilton, | *Science*, | Winston. |
| Batts, Henry Thomas, | *Arts*, | Tarboro. |
| Belden, Arthur Williams, | *Philosophy*, | Wilmington. |
| Best, Charles Exum, | *Arts*, | Oxford. |
| Blackman, Mosby, | *Philosophy*, | Blackman's Mills. |
| Booth, David Winfield, | *Arts*, | Knoxville, Tenn. |
| Brown, Claudius Parks, | *Science*, | Dixie. |
| Burleson, LaFayette, | *Arts*, | Brighton. |
| Busbee, Richard Smith, | *Arts*, | Raleigh. |
| Butt, James Arthur, | *Philosophy*, | Durham's Creek. |
| Canada, Charles Stafford. | *Philosophy*, | Summerfield. |
| Carter, Devotion Walter, | *Philosophy*, | Vander. |
| Clarke, William Grimes, | *Philosophy*, | Tarboro. |
| Clifton, Maurice Smith, | *Science*, | Louisburg. |
| Connor, Henry Groves, Jr., | *Philosophy*, | Wilson. |
| Craige, Burton, | *Arts*, | Salisbury. |
| Craig, David Jenkins, | *Arts*, | Gastonia. |
| Creekmore, Thomas Judson, | *Arts*, | Indian Creek, Va. |
| Cutlar, Louis Julian Poisson, | *Arts*, | Wilmington. |
| Daingerfield, John Haigh, | *Philosophy*, | Salem. |
| Dudley, John Gurney, | *Arts*, | Friendship. |
| Dunbar, Julius, | *Arts*, | Leechville. |
| Eatman, Darius, | *Arts*, | Oxford. |
| Edgerton, Allen Howard, | *Philosophy*, | Goldsboro. |
| Everett, John Leak, | *Science*, | Rockingham. |
| Exum, Wyatt Patrick, | *Philosophy*, | Goldsboro. |
| Falls, Moor Neilson, | *Science*, | Washington, D. C. |
| Fletcher, Roberson Smith, | *Arts*, | Gibson's Station. |

| | | |
|---|---|---|
| Forshee, Eugene, | *Science*, | Wilmington. |
| Foy, William Lannes, | *Science*, | Danville, Va. |
| Frazier, Hester Eldridge, | *Arts*, | Whiteville. |
| Gold, Pleasant Daniel, Jr., | *Arts*, | Wilson. |
| Grantham, Elonzo Bowden, | *Arts*, | Newton Grove. |
| Graves, Ralph Henry, | *Arts*, | Chapel Hill. |
| Graves, Victor Morse, | *Arts*, | Selma. |
| Green, William Henry, Jr., | *Arts*, | Wilmington. |
| Gregory, John Tillery, Jr., | *Arts*, | Halifax. |
| Grimes, William Demsie, | *Science*, | Grimesland. |
| Grimes, William Lawrence, | *Philosophy*, | Kenansville. |
| Harget, John Sandlin, | *Philosophy*, | Richlands. |
| Harrison, Thaddeus Fletcher, | *Arts*, | Plymouth. |
| Harrison, Theodore Hassell, | *Arts*, | Plymouth. |
| Haywood, Fabius Julius, Jr., | *Arts*, | Raleigh. |
| Herring, Benjamin, | *Science*, | Wilson. |
| Hill, Stuart Hall, | *Arts*, | Halifax. |
| Holliday, John Claude, | *Letters*, | Clinton. |
| Horne, Warren Winslow, | *Philosophy*, | Fayetteville. |
| Horney, William Johnston, | *Arts*, | Greensboro. |
| Hornthal, Herman, | *Philosophy*, | Plymouth. |
| Howard, Ira Nathaniel, | *Engineering*, | Berea. |
| Howard, Joseph Herbert, | *Arts*, | Conetoe. |
| Howard, William Stamps, | *Philosophy*, | Tarboro. |
| Hubbard, Richard Herring, | *Science*, | Clinton. |
| Johnson, Fred Alexander, | *Letters*, | Asheville. |
| Johnson, Ferdie Badger, | *Arts*, | Clinton. |
| Johnson, John Wright, | *Arts*, | Smithfield. |
| Johnston, Harold Ernest, | *Philosophy*, | Asheville. |
| Jones, Augustus Lewis, | *Philosophy*, | Lenoir. |
| Judd, John Herbert, | *Science*, | Enno. |
| Kluttz, Theodore Franklin, Jr., | *Philosophy*, | Salisbury. |
| Lane, William Cobb, | *Arts*, | Goldsboro. |
| LaRoque, George Paul, | *Science*, | Kinston. |
| Leggett, Wilson Durward, | *Letters*, | Scotland Neck. |
| London, Frank Marsden, | *Arts*, | Pittsboro. |
| Long, John Archie, | *Philosophy*, | Hycotee. |
| Love, Louie Otis, | *Philosophy*, | Franklin. |
| McAdoo, Victor Clay, | *Philosophy*, | Greensboro. |
| McAlister, Thomas Gilmer, | *Philosophy*, | Asheboro. |
| McCall, Thomas Edgar, | *Letters*, | Bennettsville, S.C. |
| McFadyen, Paul Rutherford, | *Science*, | Clarkton. |
| McIver, Donald, | *Philosophy*, | Sanford. |
| McMullan, Percy Wood, | *Arts*, | Hertford. |

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|---|---|---|
| McNairy, Herbert, | *Philosophy*, | Greensboro. |
| McRae, Cameron Farquhar, | *Arts*, | Fayetteville. |
| McRae, Lawrence, | *Arts*, | Chapel Hill. |
| Mangum, Adolphus Williamson, | *Philosophy*, | Chapel Hill. |
| Mansfield, Mathias, | *Arts*, | Vine, Va. |
| Martin, Samuel Herman, | *Science*, | Winston. |
| Mogi, Shinzaburo, | *Arts*, | Tokio, Japan. |
| Myers, William Starr, | *Arts*, | Asheville. |
| Newby, Oscar, | *Philosophy*, | Hertford. |
| Nichols, William Johnson, | *Philosophy*, | Greenville. |
| Parrott, William Thomas, | *Philosophy*, | Kinston. |
| Price, Walter Dixon, | *Science*, | Dixie. |
| Robertson, John Avera, | *Letters*, | Clayton. |
| Robertson, Thomas Ross, Jr., | *Science*, | Charlotte. |
| Rowland, Isham Cheatham, Jr., | *Philosophy*, | Henderson. |
| Royles, Junius Reid, | *Science*, | Wheatmore. |
| Schenck, Michael, | *Philosophy*, | Greensboro. |
| Shepherd, Sylvester Browne, | *Arts*, | Washington. |
| Simmons, Thomas Foy, | *Letters*, | Pollocksville. |
| Smith, David Baird, | *Philosophy*, | Greensboro. |
| Smith, Mark Milton, | *Science*, | Raleigh. |
| Torrence, Crown, | *Arts*, | Gastonia. |
| Turner, James Marshall, | *Arts*, | Norwood. |
| Underhill, Wingate, | *Arts*, | Selma. |
| Webb, William James, | *Arts*, | Stem. |
| Weil, Lionel, | *Philosophy*, | Goldsboro. |
| Wharton, Thomas Perry, | *Philosophy*, | Washington. |
| Whitaker, Percy DuPonceau, | *Philosophy*, | Raleigh. |
| Whitener, Robert Vance, | *Arts*, | Hickory. |
| Wilkinson, Beebe, | *Philosophy*, | Cleveland Springs |
| Williams, Albert Sidney, Jr., | *Arts*, | Kenansville. |
| Winston, Hollis Taylor, | *Arts*, | Chapel Rill. |
| Wooten, Eugene Prentiss, | *Philosophy*, | La Grange. |
| Worthington, Samuel Wheeler, | *Arts*, | Rocky Mount. |
| Wray, Joe Suttle, | *Arts*, | Shelby. |
| Wright, Robert Herring, | *Philosophy*, | Coharie. |
| Wright, Thomas Loftin, | *Philosophy*, | Coharie. |
| Wright, William Isaac, | *Philosophy*, | Coharie, |

## Optional and Special Students.

| | | |
|---|---|---|
| Allen, William Marshall, | *Fifth year*, | Wadesboro. |
| Armstrong, Volney, | *Second year*, | Bryan, Texas. |
| Batchelor, Van Astor, | *Second year*, | Nashville. |

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|---|---|---|
| Blair, Robert William, | *Second year*, | Wytheville, Va. |
| Butler, Henry Wiley, | *Second year*, | Huntley, |
| Capehart, Cullen Tucker, | *First year*, | Kittrell. |
| Caudell, Rufus George, | *First year*, | Cowles, Neb. |
| Crawford, William Henderson, | *First year*, | Salisbury. |
| Flowers, Albert Ruffin, | *First year*, | Taylor. |
| Gatling, Robert Riddick, | *Second year*, | Raleigh. |
| Giles, Clayton, Jr., | *First year*, | Wilmington. |
| Grady, Henry Alexander, | *Second year*, | Wallace. |
| Hall, Alexander McDonald, | *First year*, | Wilmington. |
| Highsmith, Charles, | *First year*, | Parkersburg. |
| Horne, Charles Whitehurst, | *Third year*, | Clayton. |
| Kirby, George Hughes, | *Second year*, | Goldsboro. |
| Kirkpatrick, David Alexander, | *Second year*, | Greensboro. |
| Liles, Junius Theodore, | *First year*. | Little Rock, S.C. |
| Long, Benjamin Franklin, Ph. B., Elon College, 1893. | *Second year*, | Elon College. |
| Lovingood, James, | *First year*, | Murphy. |
| Lybrook, George Richard, | *Second year*, | Winston. |
| McArthur, John Oliver, | *First year*, | Rowland. |
| McCallum, Neil Hinton, | *First year*, | Rowland. |
| Miller, Robert Bascom, | *Second year*, | Goldsboro. |
| Parker, Frederick Marshall, | *First year*, | Enfield. |
| Pittman, Reden Herbert, | *First year*, | Tarboro. |
| Ray, Aaron Alga, | *Second year*, | Liberty. |
| Rogers, Wiley Astor, | *First year*, | Franklin. |
| Russell, Irwin Webster, | *First year*, | Beaufort. |
| Thomas, Pride Jones, | *First year*, | Wilmington. |
| Tull, Edward Roundtree, | *First year*, | Kinston. |
| Watson, James Willie, A. M., Wake Forest College, 1886. | *Second year*, | Chapel Hill. |
| Williams, Seaton Wayland, | *First year*, | Winslow. |
| Wyche, Benjamin, | *Fifth year*. | Chapel Hill. |

## Students in Law.

| | |
|---|---|
| Andrews, Alexander Boyd, Jr., B. Litt., University of North Carolina, 1893. | Raleigh. |
| Armfield, Frank, A. M., Trinity College, 1892. | Monroe. |
| Barnard, Alfred Smith, B. S., University of North Carolina, 1893. | Danville, Va. |
| Bassett, John Spencer, A. B., Trinity College, 1888. | Durham. |
| Benbow, Franklin Byron, A. B., Guilford College, 1891. | East Bend. |

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| Benbow, John Thompson, A. B., Guilford College, 1890. | East Bend. |
| Blair, William Payne, | Blair Station, Pa. |
| Boyden, Victor Hugo, | Salisbury. |
| Bridgers, Henry Clark, | Tarboro. |
| Brooks, Aubry Lee, | Roxboro. |
| Burns, Robert Lee, A. B., Wake Forest College, 1891. | Carter's Mills. |
| Clendenin, Willie Henry, | Pleasant Lodge. |
| Cooper, James Henry, | Cooper's Station. |
| Covington, Henry Harris, | Fayetteville. |
| Cowan, Coleman C., | Webster. |
| Devin, William Augustus, | Oxford. |
| Dockery, Claudius, Ph. B., University of North Carolina, 1887. | Mangum. |
| Dockery, Oliver Hart, Jr., A. B., Wake Forest College, 1892. | Mangum. |
| Ferguson, Herbert Reeves, B. S., University of North Carolina, 1893. | Waynesville. |
| Ferguson, James William, | Waynesville. |
| Foushee, Howard Alexander, A. M., Wake Forest College, 1889. | Durham. |
| Fowler, John Edgar, | Clinton. |
| Grady, Leonidas Valentine, | Wallace. |
| Grady, Robert Gibson, | Sarecta. |
| Graham, George Mordecai, Ph. B., University of North Carolina, 1891. | Hillsboro. |
| Harding, Fordyce Cunningham, Ph. B., University of North Carolina, 1893. | Greenville. |
| Hendren, William Mayhew, | Newbern. |
| Henley, Arthur Lee, | Graham. |
| Holcombe, Marion Lee, | Clyde. |
| Ihrie, Harry Ross, | Pittsboro. |
| Johnson, James Huey, | Hope Mills. |
| Kern, Ernst Albert, | New York. |
| LaBar, George Shoemaker, | Wilksbarre, Pa. |
| Lanier, Thornwell, | Oxford. |
| Lee, Guy Carlton, | New Haven, Conn. |
| Long, Benjamin Franklin, Ph. B., Elon College, 1893. | Elon College. |
| Long, Thomas, | Chapel Hill. |
| McCrary, John Raymond, A. B., Trinity College, 1892. | Lexington. |
| McSorley, William Joseph, | Newbern. |
| Martin, John Henry, A. B., Georgetown College, 1888. | Washington, D. C. |
| Merritt, William Daniel, | Roxboro. |

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|---|---|
| Moore, Larry Ichabod, | Whitaker's. |
| Murphy, Walter, | Salisbury. |
| Narron, John Arthur, | Smithfield. |
| Needham, Warren Smith, | Pilot Mountain. |
| Parker, Haywood, A. B., University of North Carolina, 1886. | Asheville. |
| Parkinson, John Baldwin, | Ocala, Fla. |
| Price, James Robinson, | Monroe. |
| Randleman, John Luther, A. B., Roanoke College, 1892. | Salisbury. |
| Rogers, Jasper Newton, | Asheville. |
| Russell, Daniel Lindsay, | Wilmington. |
| Sanders, Zebulon Baird, | Carthage. |
| Smith, Mark Milton, | Raleigh. |
| Stanford, Elisha David, B. S., Guilford College. 1891. | East Bend. |
| Stevens, John Somers Buist, | Asheville. |
| Sumpter, Orlando Hobson, | Hot Springs, Ark. |
| Swink, Louis Melancthon, | Winston. |
| Thomas, Frederick William, | Asheville. |
| Van Noppen, Leonard Charles, B. Litt., University of North Carolina, 1892. | Durham. |
| Vass, William Worrill, Jr., A. M., Wake Forest College, 1892. | Raleigh. |
| Ward, Hallett Sidney, | Winton. |
| Webb, Edwin Yates, A. B., Wake Forest College, 1893. | Shelby. |
| Wellons, James Andrew, | Four Oaks. |
| Welch, Samuel Clingman, A. B., Wake Forest College, 1892. | Waynesville. |
| Whedbee, Harry West, | Greenville. |
| Willcox, Frederick LeRoy, A. B., University of North Carolina, 1892. | Carbonton. |

## Students in Medicine.

| | |
|---|---|
| Batts, Charley Van Buren, | Wallace. |
| Brooks, James Edwin, | Liberty. |
| Burrus, William Zachariah, | Hatteras. |
| Buxton, Joseph Thomas, | Jackson. |
| Byerly, Andrew Baxter, | Yadkin College. |
| Caton, George Adams, | Grantsboro. |
| Croft, George William, | Staunton, Va. |
| Henry, Samuel Bradley, | Murphy. |
| Keel, Charles Whitington, | Grantsboro. |
| Lee, Richard Elliott, | Clinton. |

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| Love, Lionel Hartsfield, | Wilmington. |
| Love, Stonewall Jackson, | Long's Store. |
| Merritt, Leonidas Haywood, | Pittsboro. |
| Norman, George William, | Reidsville. |
| Paris, Oliver Johnson, | Cedar Cliff. |
| Pearson, Columbus Theodore, | Riggsbee's Store. |
| Ray, Aaron Alga, | Liberty. |
| Stamey, Enoch LaFayette, | Asheville, |
| Walker, Lee Albert, | Anderson. |

## Students in Summer School of Geology.

| | |
|---|---|
| Brawley, Espy Watts, | Mooresville. |
| Clarke, Thomas, | Winston. |
| Craig, James Robert, | Gastonia. |
| Glenn, Leonidas C., A. B., South Carolina College, 1892. | Darlington, S. C. |
| Lambeth, Thomas Bell, | Lockville, |
| Lee, Benjamin Rush, | Charlotte. |
| McFadyen, Archie Hendon, B. Litt., University of North Carolina, 1893. | Clarkton. |
| Oldham, Sidney Wilson, | Riggsbee's. |
| Thompson, Walter Judson, | Sanford, |
| Wyche, Benjamin, | Chapel Hill. |

## *SUMMARY.*

### By Classes.

| | |
|---|---|
| Graduates, | 7 |
| Seniors, | 31 |
| Juniors, | 39 |
| Sophomores, | 75 |
| Freshmen, | 118 |
| Optional, | 34 |
| Law, | 66 |
| Medicine, | 19 |
| Summer School of Geology, | 10 |
| | 399 |
| Counted twice, | 11 |
| Total, | 388 |

### By States.

| | |
|---|---|
| North Carolina, | 354 |
| South Carolina, | 9 |
| Virginia, | 7 |
| District of Columbia, | 2 |
| Florida, | 2 |
| Pennsylvania, | 2 |
| Tennessee, | 2 |
| Texas, | 2 |
| Arkansas, | 1 |
| Connecticut, | 1 |
| Kentucky, | 1 |
| Minnesota, | 1 |
| Mississippi, | 1 |
| Nebraska, | 1 |
| New York, | 1 |
| Japan, | 1 |
| Total, | 388 |

# NINETY-EIGHTH COMMENCEMENT.

**June 4, 1893.**

BACCALAUREATE SERMON, F. D. SWINDELL, D. D.

**June 6—Alumni Day.**

MEMORIAL ADDRESS BY HON. THOS. C. FULLER, ON THE LIFE AND CHARACTER OF JUDGE JOSEPH J. DAVIS.

MEMORIAL ADDRESS BY JUDGE R. T. BENNETT, ON THE LIFE AND CHARACTER OF HON. WALTER L. STEELE.

ANNUAL MEETING OF THE ALUMNI ASSOCIATION.

ORATIONS BY REPRESENTATIVES OF THE DIALECTIC AND PHILANTHROPIC LITERARY SOCIETIES.

*Dialectic Society.*

L. N. Hickerson,
T. B. Lee,
L. M. Swink.

*Philanthropic Society.*

J. E. Alexander,
W. F. Harding,
J. E. Ingle.

FACULTY RECEPTION IN GYMNASIUM HALL.

**June 7.**

## *SENIOR SPEAKERS.*

J. C. Biggs,
F. C. Harding,
A. H. Koonce,
H. E. Rondthaler,
Z. I. Walser,
V. E. Whitlock,
E. M. Wilson,
W. P. Wooten.

ADDRESS TO GRADUATES BY JUDGE R. P. DICK, LL. D.

## *HONORARY DEGREES CONFERRED.*

DOCTORS OF LAWS.

THOMAS C. FULLER, Judge U. S. Court of Land Claims.
JAMES C. MCRAE, Judge Supreme Court of North Carolina.
ARMISTEAD BURWELL, Judge Supreme Court of North Carolina.
EBEN ALEXANDER, Minister to Greece.

DOCTOR OF LETTERS.

CHAS. D. MCIVER, President State Normal and Industrial School for Women.

DOCTOR OF DIVINITY.

GABRIEL JOHNSTON, - - - - Canada.

## *DEGREES CONFERRED.*

BACHELORS OF ARTS.

Samuel Francis Austin,
John Morgan Cheek,
Robert Mayo Davis,
James Archibald Jones,
Alexander Hamilton Koonce,
James Thomas Pugh,
Edwin Mood Wilson.

BACHELORS OF PHILOSOPHY.

James Crawford Biggs,
Perrin Busbee,
Fordyce Cunningham Harding,
Elbert Alfred Moye, Jr.,
Howard Edward Rondthaler,
William Boylan Snow,
Victor Emanuel Whitlock,
Edward Payson Willard,
William Preston Wooten.

BACHELORS OF SCIENCE.

Alfred Smith Barnard,
Arthur Joseph Edwards,
Herbert Reeves Ferguson.

BACHELORS OF LETTERS.

Alexander Boyd Andrews, Jr.,
Archie Hendon McFadyen,
Zenobian Ilmer Walser.

BACHELOR OF ENGINEERING.

Michael Hoke.

BACHELOR OF LAWS,

Edwin Robeson McKethan.

## *SPECIAL CERTIFICATES.*

LATIN.

J. T. Pugh.

GREEK.

R. M. Davis, J. T. Pugh, W. B. Snow.

MATHEMATICS.

J. A. Jones, V. E. Whitlock, W. P. Wooten.

FRENCH.

V. E. Whitlock.

## *UNDERGRADUATE HONORS.*

JUNIOR CLASS.

H. H. Horne, (*great honor*). T. J. Wilson, Jr., (*honor*).

SOPHOMORE CLASS.

F. L. Carr, (*great honor*), J. E. Alexander, (*honor*), T. D. Warren, (*honor*).

FRESHMAN CLASS.

J. C. Eller, (*honor*).

## *MEDALS AND PRIZES.*

MANGUM MEDAL.

J. C. Biggs.

REPRESENTATIVE MEDAL.

J. E. Alexander.

ESSAYIST'S MEDAL.

J. M. CHEEK.

GREEK PRIZE.

T. D. Warren.

WORTH PRIZE.

J. M. Cheek.

HISTORY PRIZE.

F. L. Willcox.

# DEPARTMENTS OF INSTRUCTION.

The University embraces the following Departments of Instruction:

THE DEPARTMENT OF UNDERGRADUATE INSTRUCTION, or the COLLEGE DEPARTMENT.

THE DEPARTMENT OF GRADUATE INSTRUCTION.

THE DEPARTMENT OF LAW.

THE DEPARTMENT OF MEDICINE.

The departments of Undergraduate and of Graduate Instruction are divided into sub-departments which offer instruction in the following subjects: POLITICAL AND SOCIAL SCIENCE, HISTORY, ENGLISH, ANGLO-SAXON, GREEK, LATIN, SANSKRIT, MODERN LANGUAGES, MENTAL AND MORAL SCIENCE, MATHEMATICS, CHEMISTRY, NATURAL PHILOSOPHY, BIOLOGY, MINERALOGY and GEOLOGY, HISTORY AND PHILOSOPHY OF EDUCATION.

Four regular courses of study leading to degrees have been carefully arranged for students who desire a thorough general education. Special short courses are suggested as a brief preparation for the study of medicine, for business, for agriculture, for teaching, for the study of law, or for journalism.

Students not candidates for degrees may select such studies as they desire, and may devote themselves entirely to one or more studies.

Free instruction is offered in all departments, except law and medicine, to graduates of colleges and universities.

The LIBRARY and UNIVERSITY ORGANIZATIONS (Mitchell Society, Shakspeare Club, Historical Society, Philological Club) contribute to the advancement of work in the several departments.

# THE UNDERGRADUATE DEPARTMENT.

## (COLLEGE DEPARTMENT.)

### *FACULTY.*

GEORGE T. WINSTON, LL. D., *President, and Professor of Political and Social Science.*

KEMP P. BATTLE, LL. D., *Professor of History.*

FRANCIS P. VENABLE, PH. D., *Professor of General and Analytical Chemistry.*

JOSHUA W. GORE, C. E., *Professor of Natural Philosophy.*

THOMAS HUME, D. D., LL. D., *Professor of the English Language and Literature.*

WALTER D. TOY, M. A., *Professor of Modern Languages.*

EBEN ALEXANDER, PH. D., LL. D., *Professor of the Greek Language and Literature.*

WILLIAM CAIN, C. E., *Professor of Mathematics.*

HENRY H. WILLIAMS, A. M., B. D., *Professor of Mental and Moral Science.*

HENRY V. WILSON, PH. D., *Professor of Biology.*

KARL P. HARRINGTON, A. M., *Professor of the Latin Language and Literature.*

COLLIER COBB, A. B., *Professor of Geology and Mineralogy.*

EDWIN A. ALDERMAN, PH. B., *Professor of History and Philosophy of Education.*

HERBERT C. TOLMAN, PH. D., *Professor of Sanskrit and Acting Professor of Greek.*

### *OTHER INSTRUCTORS.*

JOSEPH A. HOLMES, B. S., *State Geologist and Lecturer on Geology of North Carolina.*

JOHN MANNING, LL. D., *Professor of Law.*

RICHARD H. WHITEHEAD, M. D., *Professor of Anatomy, Physiology and Materia Medica.*

JAMES E. SHEPHERD, LL. D., *Chief Justice of the Supreme Court of North Carolina, Associate Professor in Law.*

CHARLES BASKERVILLE, B. Sc., *Instructor in Chemistry.*

THOMAS R. FOUST, B. E., *Instructor in Mathematics.*

JAMES T. PUGH, B. A.. *Instructor in Latin.*

## REQUIREMENTS FOR ADMISSION.

**For Admission to the Freshman Class** in any of the courses candidates are examined in English, Mathematics and History; for admission to the Course in Philosophy they are examined in Latin also; for admission to the Course in Arts they are examined in both Latin and Greek.

Students who take an optional course are examined in such subjects as relate to the studies which they select.

The University accepts without entrance examinations students from certain schools in the State whose courses of study and methods of instruction are approved by the Faculty. Such students must present certificates of proficiency from the principals of the schools.

The requirements for admission to the Freshman class are as follows:

**Latin.**—Cæsar's Gallic War, two books; Vergil's Æneid, six books; four of Cicero's Orations; Latin Grammar, including prosody, and the Roman method of pronunciation; the translation into Latin of connected passages of English, based on the Latin authors read. (Equivalent amounts from other authors may be accepted).

**Greek**—Xenophon's Anabasis, three books; Greek Grammar; simple exercises in translating English into Greek. Equivalent amounts from other authors are accepted. Candidates who have not read the entire three books of the Anabasis may, if the rest of their preparation is satisfactory, make good the deficiency by private study.

**History.**—All candidates are required to exhibit a general acquaintance with the history of the United States and with Greek and Roman History. Chamber's or Barnes' Histories of the United States, Myer's Ancient History, or Allen's Short History of the Roman People and Fyffe's History of Greece, are suggested as suitable books for use in preparation.

**Mathematics.**—I. ARITHMETIC. The candidates should be able to perform all fundamental operations and explain them; to explain the subjects of prime numbers, factors, greatest common divisors and least common mutiples, and to give the rules and apply them; to perform all operations upon fractions, including decimal fractions and mixed numbers, as well as denominate numbers; to write out examples with facility in percentage, interest and discount, simple and compound proportion and square root, with an analysis and reason for the methods employed.

Special attention must be given to the reason for the rules. Robinson's Practical Arithmetic and Lock and Scott's Arithmetic, or equivalent works, are recommended in preparing students to pass the examination on the foregoing subjects.

II. ALGEBRA. The candidate should be thoroughly prepared in ordinary operations on algebraic numbers (plus and minus quantities), factoring, highest common factor, lowest common multiple, fractions, equations of the first degree involving one or more unknown quantities, ratio and proportion, involution, and evolution, and surds down to equations of second degree. Well's, Newcomb's and Wentworth's Algebras are recommended particularly, because they begin with the conception of plus and minus quantities. Although the requirements are as above, it is better for the student to have accomplished the whole of a good elementary algebra before entering, and to have studied, besides, a College Algebra, working out all the examples, at least as far as quadratic equations.

**English.**—Grammar (Whitney, or Bain, or Salmon); Introduction to Rhetoric and Composition (Clark's Smaller Practical Rhetoric, or D. J. Hill's Rhetoric); Outlines of English and American History (Freeman and Eggleston) and of English Literature (Gilman or Brooke). Special attention should be paid to preparatory studies in such manuals as Lockwood's Lessons, or Meiklejohn's English Language, and in such annotated authors as Sprague's Irving, Swinton's Studies, Hudson's or Rolfe's Julius Cæsar, the Riverside Series, Harper's and Ginn's English Classics. A short composition is required. For entrance in September, 1894 and January 1895, the candidate will be required to write upon one of several subjects chosen from one or more of the following works: Shakspere's Julius Cæsar, Irving's Alhambra, the Coverley Papers in the Spectator, Webster's First Bunker Hill Oration, Scott's Marmion and Talisman. Every candidate must be acquainted with all the books in this list.

## *TIME OF EXAMINATIONS.*

**Entrance Examinations** are held on Tuesday and Wednesday preceding the opening of the sessions in September and in January. The hour and place of each examination can be ascertained at the University offices in the South building. Under proper restrictions examination papers may be sent to the principals of approved preparatory schools, where entrance examinations may also be held in May.

## *EXAMINATIONS FOR ADVANCED CLASSES.*

**Such Examinations** are held on the same days as the entrance examinations. Applicants are subject both to the regular entrance examinations and to special examinations on all the subjects passed over by the class which it is desired to enter. When the examining professor is thoroughly confident of the wisdom of such a course, he may admit to advanced classes on probation students with slight deficiencies; and he may also, with proper restrictions, accept the reports of students at other colleges, in lieu of an examination, on work completed satisfactorily in those colleges. This arrangement is intended to obviate the necessity of long and minute reviews of the entire course, and to substitute, in place of examinations here, previous examinations passed satisfactorily at reputable institutions.

# COURSES OF INSTRUCTION.

## *I. POLITICAL AND SOCIAL SCIENCE.*

President WINSTON and Dr. BATTLE.

The department aims not only to furnish such knowledge of economic and social principles as is useful to business men and essential to good citizenship, but also to supply special training for lawyers, teachers, preachers, public men and journalists. It is hoped to stimulate interest in all problems relating to public and social life, and to illustrate proper methods of investigating the same.

### 1. Principles of Political Economy and Sociology.

The instruction is by text-books, parallel reading and lectures. The course is elective for Juniors, Seniors and special students. 2h.

### 2. Current Questions.

This course is elective for all who have completed course 1. Seminary methods are applied to the study of such questions as the Tariff, Money and Banking, Financial Legislation, Divorce, and Crime. Theses embodying the results of study and investigation are required of all students. 2h.

## *II. HISTORY.*

Dr. BATTLE and Professor ALDERMAN.

The instruction in the department of History is designed to trace the moral, intellectual and material progress of the chief nations of mankind. Especial attention is given to the development of the institutions of the people of Great Britain and the United States. Efforts are made to create a living interest in the record of the past by showing the likeness or unlikeness between its political and social problems and those of the present. Text-books, collateral readings. topical reports and theses, study of contemporary documents, class-room debates, lectures by the professors, will all be used to stimulate interest and to arouse enthusiasm.

In the study of North Carolina History, no text-book will be used. Lectures will be given, and investigation into the Colonial Records, Acts and Journals of the legislature, Public Documents, Manuscripts, newspaper files and other printed matter, owned by the University or the North Carolina Historical Society, will be required. The work concludes with a study of the history of civilization based on Ducoudray and Guizot.

Professor ALDERMAN.

**1. Introduction to Mediæval History.**

Brief review of Grecian and Roman history, followed by Emerton's Introduction to the Middle Ages and Church's Beginnings of Middle Ages as bases for recitation. Special topical studies in larger works. First term, 3h.

**2. Mediæval History.**

Emerton's and Duruy's Histories of the Middle Ages will serve as text-book basis, supplemented by readings and studies in standard works and original sources. Required in courses in Philosophy, Science and Letters, and elective with a modern language in course in Arts.

Second Term, 3h.

Dr. BATTLE.

**3. English History.**

Lectures, text-books, topical reports. This course gives a general survey of the field of English History. 3h.

**4. American History.**

Text-books, lectures, topical reports. This course includes the History of the Colonization of North America and the History of the United States. This course and that in English History are especially useful to the proper study of American Constitutional History. This course alternates with the above. 3h.

**5. Constitutional History.**

Text-books, topical reports, lectures. A preliminary study is had of the constitutional development of Greece, Rome, France, Germany, Switzerland, Austria-Hungary and Sweden-Norway. Special attention is then given to that of Great Britain and the United States. The great cases of the Supreme Court of the United States are studied somewhat in detail. Lectures are also given on the constitution of North Carolina and on International Law. 2h.

**6. North Carolina History.**

Lectures, topical reports, investigations of the manuscripts of the Historical Society. A thesis is required. 2h.

**7. New Testament History.**

Lectures each Sunday morning, at the instance of the Young Men's Christian Association. For 1894-'5 the subject will be the Missionary Labors of the Apostle Paul. Not elective.

Professor ALDERMAN.

**8. History of Ancient Civilization.**

Instruction based on Ducoudray's History of Ancient Civilization. Special attention given to beginnings of civilization. Diffusion of Greek agencies and society under the Empire. First term, 2h.

**9. History of Modern Civilization.**

Instructions based on Ducouday and Guizot. It is hoped to give the student a connected idea of the progress of the nations into civilization. Special attention given to social questions, the christian church and nineteenth century life. Elective for seniors who have taken courses I and II. Second term 2h.

## *III. ENGLISH.*

Professor HUME and Professor ALDERMAN.

The course begins with the theory and practice of rhetoric and composition. Enough literature is read from the first to serve as models and sources of inspiration. Not only the history and biography of literature, but the literature itself is studied and complete works are estimated. Shakspere is a specialty. Etymology and historical accidence prepare the way for higher work in philology. Original investigation is fostered by seminary methods and Shakspere Club work and results are embodied in theses. Opportunity for advanced work is offered to teachers and specialists. The Essays and Orations course has a distinctive place and value. The Mangum Medal for Oratory and the Professor's Medal for the Best Essay are offered in the graduating year.

**1. Practical Rhetoric and Nineteenth Century Literature.**

English authors (Scott, Byron's Childe Harold), History of American Literature (Hawthorne) with parallel readings, Professor's Guide to special exercises. Etymology (McElroy and Skeat), Essay writing. Required of Freshmen. 3h.

**2. Historical Grammar. Diction of Shakspere and the Bible.**

Old, Elizabethan and Eighteenth Century English. (Professor's studies in Bible Diction, Craik's English of Shakspere, Julius Cæsar). Expository essays. Required of Sophomores. 1h.

**3. Poetics. The Drama.**

Annotated Poems (Hales), Spenser, Tennyson's Princess and Idyls of the King, Morte d'Arthur, Critical theses. Shakspere, Henry IV, Parts 1 and 2, Henry V, Richard III, with Guides to study. 2h.

**4. History and Philosophy of Literature.**

Chaucer (Morris and Skeat's Edition). Shakespere continued (Hudson's and Dowden's Criticisms,) Lectures and Theses. Milton (Browne's Edition). Wordsworth (Matthew Arnold's Edition). Browning (Corson's Edition). The Novelists. Elective for Seniors. 2h.

**5. Essays and Orations.**

English Prose (Minto and Garnett); British and American Orations (Adams, Johnston); lectures; practice in writing and extemporaneous discussions. Elective for Seniors. 1h.

## *IV. ANGLO-SAXON.*

Professor HUME.

A two years' undergraduate course (elective) is offered, supplementing the regular work in Etymology and Historical Accidence offered above and laying the foundation for advanced studies in philology and comparative grammar.

**1. Elementary Course.**

Sweet's Anglo-Saxon Reader, Earle's Philology. 2h.

**2. Advanced Course.**

Middle English (Sweet); Wycliffite, Tyndale and later Bible versions; Piers Plowman. Anglo-Saxon Poetry, Comparative Grammar (Sievers, Skeat), Northern Mythology. The Latin Element in English. 2h.

## *V. SANSKRIT.*

Professor TOLMAN.

The courses in this department are intended for Juniors and Seniors and Graduate students.

The first year will be spent in mastering the elements of the language and reading short extracts from the Epic poem Maha-Bharata, the Sutras and a few Vedic hymns. The student is introduced at the outset to the comparative study of words and forms, that as early as possible he may find the Sanskrit vocabulary and grammar helpful to a better appreciation of Latin and Greek.

The work of the second year is in the Vedic literature, with special study of the dialect and meter of the Veda. The class will read some one of the Sutras.

**1. Elementary Sanskrit.**

Whitney's Sanskrit Grammar, Lanman's Sanskrit

Reader, comparison of forms. A course of lectures on Sanskrit literature will be given during the Spring term. 2h.

**2. Rig Veda, Sutras, etc.**

Böhtlingk's Crestomathie, Sanskrit Composition, Hillebrandt's Vedacrestomathie. 2h.

**3. Sanskrit Drama.**

One play of Kalidasa. Prakrit portions of the play will be studied with reference to phonetic combinations, forms and syntax. Spring term. 2h.

**4. Sanskrit Seminary.**

Careful interpretation of the Vedic hymns. Comparison with the German translations of Grassmann and Ludwig. Frequent reference will be made to the Sanskrit commentary of Sayana. The instructor will translate rapidly portions of the Sanskrit epics alternating with six books of the Laws of Manu the following year.

## *VI. GREEK.*

Professor TOLMAN.

The work of Freshman year is devoted to the study of grammatical forms with especial reference to their historical development. The language of the Homeric poems is studied and several books of the Iliad and Odyssey are read. The dialect of Herodotus is also studied.

In the Sophomore year the student takes up the Greek drama and also reads one or more of Plato's dialogues. Two orations of Demosthenes and selected dialogues of Lucian may alternate with the dialogues of Plato. Selections from Thucydides are read with special reference to the pure Attic style of the writer.

**1. Homer, Herodotus.**

Selected books of Homer's Iliad. Three books of Homer's Odyssey, (Merry). Selections from Herodotus, (Merry). Narrative portions of the New Testament, (Kerr & Tolman's Greek New Testament Series). Required in course in Arts. 4h.

**2. Sophocles, Plato, etc.**

The Antigone of Sophocles, (D'Ooge). Selections from Plato (Apology, Crito, Phaedo, Gorgias, Republic, Theaetetus). The birds of Aristophanes or the Alcestis of Euripides. Selections from Thucydides, (Colson). Required in course in Arts. 3h.

**3. Herodotus.**

Rapid reading of Herodotus I and III. Comparison of accounts with those of the ancient Persian cuneiform inscriptions. Tolman's *Persian Inscriptions;* Weissbach and Bang's *Altpersischen Keilinschriften.* 2h.

**4. The Old Testament and Inscriptions.**

Reading of the Septuagint translation. Comparison of the Biblical statements with those of the native inscriptions. Lectures on the history and religion of the Assyrian, Egyptian and Phoenician peoples. This course is intended to follow the above. 1h.

**5. Epistle to the Romans.**

Special reference will be given to textual criticism and interpretation. The readings of the best uncial manuscripts will be studied and the various methods and principles of interpretation compared.* 1h.

6. **Pauline Epistles.**

Critical reading of the Pauline Epistles (except Romans). Comparison of the various versions (Vulgate, Syriac, etc.). The formation of the New Testament canon. 1h.

7. **Greek Inscriptions, etc.**

Reading of Inscriptions from Crete, Delphi, Boeotia, etc., illustrating the dialect of the various divisions of Greece. Lectures on Greek Phonology and Morphology. Results of investigations into the early civilization of the Indo-Germanic peoples.* 2h.

8. **Greek Dialects.**

Pindar, Theocritus, Homer. Special study of the poetic forms of Pindar. The national games of Greece. Imitations of Theocritus. Homeric Archaeology. The Homeric question. Lectures on Comparative Greek Grammar based

* Omitted in 1894-'95.

on Brugmann's *Grundriss der vergl. Grammatik der idg. Sprachen.* 2h.

## *VII. LATIN.*

Professor HARRINGTON and MR. PUGH.

The aim of the instruction during the first two years is to familiarize the student more thoroughly with the grammatical principles of the language; to encourage and develop facility in reading Latin, including passages not previously studied; to practice translation into pure English, to direct initial steps in literary criticism; to enhance the human interest in the study of Latin by comment, parallel investigations and lectures.

In the elective courses the philological grasp on the language is tightened, various types of Latin literature are studied topically, large amounts are read, individual research is encouraged by Seminary methods, more critical and minute study is required, and a clearer insight is sought into the life of the old Roman world by special consideration of its political, sociological, mythological and archæological relations.

Professor HARRINGTON and Mr. PUGH.

1. **Livy and Horace.**

Livy, Books XXI and XXII; Horace, selections from the Satires, Epistles, Epodes and Odes; composition; sight reading. Required in courses in Arts and Philosophy. 4h.

Professor HARRINGTON.

2. **Plautus, Terence, Cicero, Tacitus.**

Plautus: Trinummus, Menaechmi, or Captivi; Terence: Andria, or Adelphi; lectures on Roman drama; Cicero, selected letters; Tacitus: Agricola and Germania; special study of some Roman political and social institutions. Required in courses in Arts and Philosophy. 3h.

3. **Pliny, Catullus, etc.**

(a) Pliny the younger, selected letters; specimens of other epistolary Latin. (b) Lyric poets: early lyrists, Catullus, Horace (briefly); the decadence of Latin lyric poetry, Latin hymns; investigation of special subjects. Given in alternate years with course 12. Omitted during 1894-'95. Elective for Juniors in courses in Arts and Philosophy. 2h.

4. **Roman Philosophy.**

Lucretius, De Rerum Natura (selections); Cicero: selections from the Academica, Tusc. Disput., De Finibus, De Natura Deorum; Seneca: De Providentia, De Tranquillitate Animi, De Vita Beata; lectures on the history and development of ancient philosophy; original research. Given in alternate years with course 5. Elective primarily for Seniors. (See under course 5.)

5. **Roman Satire.**

Selections from the fragments of Ennius, Lucilius and Varro; Horace, Sat. I, 10; II, 1, 3 and 5; Persius; Juvenal; Seneca, Apocolocyntosis; selections from Petronius and Martial; lectures on the origin and development of ancient satire; original research. Given in alternate years with course 4. Omitted during 1894-'95. Elective primarily for Seniors. (Courses 4 and 5 properly follow either 3 or 12; but at the discretion of the Professor they may be elected together with a Junior course or even, rarely, in advance of one.) 2h.

6. **Theory and Practice of Teaching Latin.**

Review of portions of the Latin ordinarily studied in preparation for college; suggestions as to books and methods; application of theory to practice. Elective for students that have completed course 1. 1h.

7. **Roman Topography.**

Lectures on the development of the city of Rome and the present condition of its ancient ruins, preceded by a brief glance at the geography of the Italian peninsula. Illustrated by maps, plans, photographs, etc. Given in alternate years with course 8. Elective for those who have completed course 2. 1h, first term.

8. **The Private Life of The Romans.**

Illustrated lectures on some of the more important and interesting customs and institutions of Roman every-day life. Given in alternate years with course 7. Omitted during 1894-'95. Elective for those that have completed course 2. 1h, first term.

9. **Latin Writing.**

Advanced exercises in the translation of English into

Latin, with especial reference to style. Given in alternate years with course 10. Elective for those who have completed course 2. 1h, second term.

10. **Roman Epigraphy.**

The principles of the science and the interpretation of selected inscriptions. Given in alternate years with course 9. Omitted during 1894-'95. Elective for those that have completed course 2. 1h, second term.

11. **Latin Seminary.**

Critical study of some author, or literary work, or department of Roman literature. The members take turns with the Professor in the interpretation and discussion of the work in hand, and present periodically the results of their individual researches. The Seminary room contains facilities for the use of the members and a special library for consultation in connection with their work. During 1893-'94 this work was in early Latin: the interpretation, and historical and literary study of the earliest Latin inscriptions and legal and literary fragments. For 1894-'95 is proposed a critical study of the Appendix Vergiliana. For graduate students. 1h.

Mr. Pugh.

12. **The Roman Elegiac Poets.**

Selections from Catullus, Tibullus, Propertius, Ovid; lectures on the origin and growth of the ancient elegy; investigation of special subjects. Given in alternate years with course 3. Elective for Juniors in courses in Arts and Philosophy. 2h.

## *VIII. MODERN LANGUAGES.*

Professor Toy.

Those who take Courses 2 and 4, must have completed 1 and 3, respectively. A short study of Literature is given in 2 and 4, if the class is sufficiently advanced. Course 5 is intended for Seniors who have completed Course 4, with grade not less than 2.

1. **Elementary French.**

Grammar. Written exercises. Prose translation. Sight reading. Elective with German and History in Courses in

Arts, and with German in Courses in Philosophy, Science and Letters. 3h.

2. **Intermediate French.**

Review of Grammar. Translation. Sight reading. Composition. Outline of Literature. Elective with German in Courses in Philosophy and Letters. 3h.

3. **Elementary German.**

Grammar. Written exercises. Prose translation. Sight reading. Elective with French and History in Course in Arts, and with French in Courses in Philosophy, Science and Letters. 3h.

4. **Intermediate German.**

Review of Grammar. Translation. Sight reading. Composition. Outline of Literature. Elective with French in Courses in Philosophy and Letters. 3h.

5. **Advanced German.**

The German Drama. Wide reading. Theses. Lectures. 2h.

## *IX. MENTAL AND MORAL SCIENCE.*

PROFESSOR WILLIAMS.

1. **Psychology.**

Required in all the courses three times a week throughout the year, two hours with a text, one hour with lectures. Each student in this course is expected to write a thesis. 3h.

2. **Logic.**

A text is used, but lectures are given frequently. The aim of this course is to study Logic in life; therefore the system of Aristotle is not used. Elective. 2h.

3. **Ethics.**

The class meets at night in the study of the Instructor. The work is in the main to discuss and criticise freely. The students are urged to have opinions, to state them clearly and defend them sharply. Elective. 2h.

**4. Philosophy.**

This is a course of lectures. Each student writes an elaborate thesis. The Instructor following the lead of his own ideas hopes to give each student a deeper insight into, and a firmer grasp of the forces that shape life. Elective. 3h.

**5. Epistemology.**

For the present the work of this course is to consider the Theory of knowledge. It extends over two years. The first year is occupied with preparation for and introduction to Kant. The second year is given to an analysis of the *kritik der reinen Vernunft.* Open to Graduates.

## *X. MATHEMATICS.*

Professor CAIN and Mr. FOUST.

Instruction is given by text-books and lectures. Throughout the whole course students are called daily to the board to ensure a thorough drill in the exercises and a proper development of the reasoning faculties. Precision in demonstration is regarded as especially essential to the latter end, for without it, the close logic of the mathematical processes would lose much of their educational value. Great importance is attached to the solution of original exercises, which are given abundantly, especially as they tend to fix preceding principles clearly in the mind.

**1. Algebra and Geometry.**

Algebra from quadratics to determinants is studied in the first term of the Freshman year. Plane and solid Geometry is completed in the spring term. 4h.

**2. Trigonometry and Conic Sections.**

In the fall term of the second or Sophomore year, Plane and Spherical Trigonometry is completed, the spring term being devoted to Conic Sections and Higher Plane Curves. 3h.

**3. Calculus.**

In the third or Junior year, Solid Analytic Geometry with the Differential and Integral Calculus are required studies. 3h.

**3. Surveying and Projection Drawing.**

Surveying is taught as an elective, in the Junior year, also Projection Drawing. Field work with instruments is given throughout the course. 3h.

## *XI. CHEMISTRY.*

Professor VENABLE, Mr. BASKERVILLE and Mr. KENAN.

Instruction is given in this department by lectures illustrated by experiments. Books of reference are suggested in the various classes. The laboratory has a library of several hundred volumes, and the chief chemical periodicals are at the command of the student. Some laboratory work is required of every student in Chemistry. Students in advanced Chemistry must present suitable theses for graduation.

**1. Experimental Chemistry.**

This course covers the general principles of Chemistry as brought out by a study of the elements and their compounds and includes a brief preliminary treatment of organic chemistry. The students taking this class must perform in the laboratory a given number of experiments thus familiarizing themselves with the characteristics and behavior of the various substances lectured upon. 3h.

**2. Organic Chemistry.**

In this class as full a study as possible is made of the hydrocarbons and their derivatives. 2h.

**3. Industrial Chemistry.**

The applications of chemistry to the arts and industries are here studied. The course includes metallurgy, glass making, pottery, foods, clothing, building materials, explosives, photography, etc. The latter half of the spring term is devoted to course 4. 3h.

**4. Agricultural Chemistry.**

This includes the chemistry of the plant, the soil and a discussion of plant foods, etc. Many specimens have been collected in the industrial museum to illustrate this and the preceding course. 3h.

**5. Theoretical and Historical Chemistry.**

The lectures in the Fall term cover the theories of chemistry, in the Spring they treat of the historical development of the Science. 2h.

**6. Qualitative Analysis.**

The student is familiarized with the more common elements and their relations and is trained to detect the various constituents of minerals and similar substances. 2h.

**7. Quantitative Analysis and Assaying.**

This course is intended to give the student a thorough grounding in analytical methods and manipulations. It covers five weeks.

**8. Quantitative Analysis.**

The students in this class are led further into the study and practice of analytical methods. The work may take any special direction desired by him, fitting him to be an agricultural chemist, iron chemist, manufacturing chemist, physician, druggist or teacher of chemistry. Encouragement is given to the student to make original researches 3h. or 5h.

## *XII. NATURAL PHILOSOPHY.*

Professor GORE and Mr. WHITE.

**1. Physics.**

A general and rather elementary course. The fundamental facts of the subject are presented and the general laws illsutrated by experiments. Required in Freshman year in all courses except course in Arts. 2h.

**2. Physics.**

A general course, more advanced than course 1., with special attention to molecular physics. Required in Junior year in all courses. 3h.

**3. Experimental Physics.**

This course is taken in connection with course 2. A knowledge of the simpler methods of physical manipulation is acquired and physical laws and formulae verified. Required in Junior year in all courses. 1½h.

**4. Electrical Engineering.**

This course includes the study of text-books on the subject, electrical measurements and experimental study of dynamo machines, electric motors, electric lighting, storage batteries, etc. Elective. 2h.

**5. Astronomy.**

This course is pursued as a branch of liberal education, and is in large part discriptive, though enough mathematics is included to give accuracy to the study. Elective. 2h.

## *XIII. BIOLOGY.*

Professor WILSON.

In the lower classes of this department the aim is to provide a comprehensive survey of the fundamental facts and principles of living things. In the succeeding undergraduate classes a prominent place is given to those branches of Biology, that are especially adapted to the needs of students looking forward to the study of medicine. An opportunity is given, in the advanced classes and the Summer Courses at the seaside, to carry forward the subject and to learn the methods of original investigation.

In all the classes a combination of lectures, reading, and laboratory work is made use of. The following description of the several classes conveys an idea of the ground covered.

**1. Elements of Physiology.**

In connection with the lectures, Martin's Human Body is used as parallel reading. Special notes have been prepared for the laboratory work. The class is divided for the latter work into sections, each student spending two hours a week in the dissection of the frog and certain organs (heart, brain, eye, etc.,) of some large mammal. The members of the class perform also, for themselves, a few simple physiological experiments). Fall term (lectures two hours, laboratory, one hour). Required in Freshman year. 3h.

**2. General Biology.**

Books of reference: Parkers Elementary Biology, Claus and Sedgwick's Zoology, Gray's Lessons and Manual of Botany. In the lectures the essential qualities of living matter, the phenomena of fertilization, the development and

relationship of organisms, and kindred topics of general interest are discussed. A large part of the time is devoted to a comprehensive survey of of the principal groups of animals and plants. In the Spring instruction in the systematic botany of flowering plants is given. 3½h.

**3. Practical Biology.**

Manuals recommended: Huxley and Martin's Practical Biology, Howe's Atlas of Biology, Marshal and Hurst's Practical Zoology. This is a course of laboratory work running parallel with the general Biology lectures. A series of typical animals and plants are dissected and studied microscopically. The types chosen are amœba, vorticella, paramœcium, hydra, earthworm, star-fish, mussel, crayfish, and dog-fish on the one hand, hæmatococcus, yeast-plant, bacteria, moulds, spirogyra, nitella, fern, and flowering plant on the other. 2h.

**4. Vertebrate Embryology.**

Manual recommended: Foster and Balfour's Elements of Embryology. In the lectures an outline of the development of the fowl is given, and the more interesting comparisons between this type of development and that of the lower vertebrates and of mammals are touched upon. In the laboratory the development of the fowl is traced from the unincubated egg to a stage in which the various organs of the body have been formed. Only those students are admitted to this class who have completed courses 2 and 3. Fall term (lecture one hour, laboratory two hours). 3h.

**5. Vertebrate Histology.**

Manual recommended: Schäfer's Essentials of Histology. In the laboratory microscopic preparations illustrating the structure of the principal tissues and organs of the vertebrate body are made and studied. In this course and in course 4, a knowledge of microscopic technique is acquired, the student becoming familiar with the processes of section-cutting, staining, mounting, etc. Only those students are admitted to this class, who have completed courses 2 and 3. An exception is made in the case of the medical students. Spring term (lecture one hour, laboratory two hours). 3h.

**6. Comparative Anatomy and Embryology of Vertebrates.**

For advanced students and graduates. Manuals recom-

mended: Wiedersheim's Comparative Anatomy, Mark's translation of Hertwig's Embryology.

The work will embrace a study of the comparative anatomy and embryology of the vertebrates, special attention being paid to the anatomy of the mammal, and to a comparison of the development of teleosts with that of amphibia and birds. 3h.

**7. Research Course in Zoology.**

For advanced students and graduates. The aim in this course will not be to cover ground, but to initiate the student into the method of conducting an original investigation in Zoology. A special problem will be assigned, literature bearing on the question will be provided, and any new results of interest will be published. 3h.

**8. Summer Course.**

Elementary Marine Zoology, One month's continuous work, counting as *three hours* for half the year. Students are admitted into this course without previous knowledge of the subject. The work will embrace a study of the structure and habits of a number of typical marine invertebrates.

**9. Summer Course.**

Marine Zoology, One month's continuous work, counting as *three hours* for half the year.

Only those students are admitted into this class who have completed courses 2 and 3.

In the work of this class special attention will be paid to the development of certain marine animals (star-fish, medusae, metemorphosis of crustacea).

The Summer Courses will be held at Beaufort, on the coast of North Carolina.

## *XIV. GEOLOGY AND MINERALOGY.*

Professor Cobb.

The arrangement and sequence of courses is such that the student may study geology for the sake of general information, or he may fit himself for professional work in geology, combining his special studies with the academic culture which the University affords.

**1. Physiography.**

Lectures, laboratory work, and recitations. Required in Freshman year of courses in Philosophy, Science and Letters. Not Elective. Spring term. 3h.

**2. General Geology, including Mineralogy.**

Lectures, laboratory and field exercises and recitations. Elective with chemistry and biology in the Sophomore year of all the courses except the course in Letters, and in the Junior year of all the courses. 3h.

The lectures deal with the more easily explained geological phenomena. Reference is made to Dana's Manual and to LeConte's Elements of Geology. The laboratory work is devoted to the study of about fifty important mineral species, and includes also a study of disintegration and erosion, structure of the fragmental rocks, metamorphism, the relation of life to the rocks, and the preservation of organic remains.

**3. Determinative Mineralogy.**

Lectures and laboratory work. Dana's Text-book of Mineralogy. Elective in Junior and Senior years. Fall term. 2h.

**4. General Critical Geology.**

Lectures, field and laboratory work, and theses. For reference: Lyell's Principles of Geology and Geikie's Text-book of Geology. Elective. 3h.

This course treats of the history of the science, and the various theories of geology are considered criticaly. Problems are worked out in the field and laboratory. A thesis must be completed by May 1st.

**5. Advanced Geological Field-work and Special Research.**

Problems are assigned individually and work adapted to the professional needs of the student. Seminarium once a week, and individual conferences. Elective. 3h.

This course may be taken with advantage in successive years.

**6. Summer Course.**

Pysical and Structural Geology including Mineralogy. Daily lectures, laboratory and field work around King's Mountain, N. C. One month, June–July. Elective. Counts as *three hours* for half the year.

**7. Summer Course.**

Advanced Geological Field work and Special Research. Neighborhood of King's Mountain, June-July. Elective. Counts as *three hours* for half the year.

*** Courses 4, 5 and 7 are offered in the graduate department.

## *XV. HISTORY AND PHILOSOPHY OF EDUCATION.*

Professor ALDERMAN.

This department seeks to promote the study of the science and art of education, to give training in the organization and administration of the school, and to prepare University students for the higher positions in the public and private school service. It is also intended to bring the secondary schools of the state into closer relations with the University.

The courses in the history and philosophy of education are intended to have for the student a definite culture value as well as professional value, by interpreting for him the institutions and ideals of the past.

The work will be by text-book, lecture, independent reading and plans of teaching worked out by the student under the direction of the instructor.

**1. The Science of Education.**

Rein's Pedagogics and Joseph Payne's Lectures. The aim is to develop a consistent body of educational doctrine for the guidance of teachers. Elective. 2h.

**2. Art of Teaching.**

Lectures and practical exercises in teaching. Payne's and Prince's Methods in German Schools. Elective. 2h.

**3. School Supervision.**

General school management and problems confronting school principals and superintendents. Text-book and lectures. Elective. 2h.

**4. General History of Education.**

The culture conditions and educational doctrines of antiquity. Williams's History of Modern Education and read-

ings from educational classics—Rousseau, Pestalozzi, Spencer. Elective for Juniors and Seniors. 2h.

5. **Philosophy of Education.**

Laurie's Institutes and Rosencranz's Philosophy of Education. Discussion of special educational topics and matters relating to the educational needs of North Carolina. Preparation of pedagogical theses. Elective for Juniors and Seniors. 2h.

## PRIZES AND MEDALS.

**Medal for Oratory.**—The Misses Mangum, of Orange, offer in memory of their father, Willie P. Mangum, a gold medal as a prize for the best oration at the annual Commencement.

**The Greek Prize.**—Offered to the member of the Sophomore Greek class who presents the best rendering into English of selected passages of Greek not previously read.

**Kerr Prize in Geology.**—Offered in memory of Professor W. C. Kerr to any graduate or undergraduate student for special work in Mineralogy or Geology of North Carolina.

**The Essayist's Medal.**—A gold medal is offered in the department of English Literature to the member of the senior class who presents the best essay or thesis on the occasion of his graduation.

**The History Prize.**—A prize of books relating to North Carolina, to the value of fifteen dollars, is offered by a graduate of the class of 1889, for the best thesis on some subject of North Carolina history to be prescribed by the Professor of History.

**Charles G. Hill Prize.**—A prize of one hundred dollars is offered for the best thesis on some subject connected with North Carolina history, by an undergraduate or a graduate student during the year 1893–'94. The prize is offered by Dr. Charles G. Hill, of Baltimore.

**D. G. Worth Prize.**—The best thesis in Mental and Moral Science is awarded the D. G. Worth prize and is published.

## PUBLIC WORSHIP.

**Prayers** are conducted in the Chapel with singing and reading of the Scriptures every week day morning at 8:15 o'clock. Attendance at this service is compulsory. During the present year reg-

ular assistance has been kindly given by Rev. John L. Carroll, A. M., D. D., Rev. James E. Fogartie, A. M., Ph.D., Rev. Frederick Towers, A. B., and Rev. N. M. Watson.

**Bible Classes** for young men are taught in each of the four churches of the village every Sunday. Divine services are held twice a week or oftener in each church.

**A Series of University Sermons** is preached monthly in the University chapel under the auspices of the Young Men's Christian Association.

**Bible Lectures** are delivered every Sunday morning in the Association hall.

**The Association** meets five times a week for prayer, song and other services. The moral tone of the University is manly, self-reliant and healthy; its religious life is active, broad and tolerant.

## PHYSICAL CULTURE.

Hearty encouragement is given to athletic sports. There is a large, well-graded athletic field for base-ball and foot-ball, besides a smaller field for running, vaulting and general out-door gymnastics. About fifteen tennis courts, conveniently located in the campus, belong to the various tennis clubs.

Systematic exercise in the Gymnasium under a skilled instructor is required of all students except Seniors. The education and intelligent care of the body are recognized as essential to intellectual power and culture.

## LOCATION.

The seat of the University is Chapel Hill, Orange County, twenty-eight miles northwest of Raleigh. Two daily passenger trains run between Chapel Hill and University Junction, a station on the N. C. Railroad. The site was selected because of its uncommon healthfulness, its freedom from malaria, its supply of pure water, its beautiful scenery and its central position in the State.

## EQUIPMENT.

There are twelve University buildings. The SOUTH BUILDING contains the University offices, the Young Men's Christian

Association hall and sitting room, two lecture-rooms, the laboratories and lecture-room in natural philosophy and twenty-five dormitories. The OLD EAST BUILDING contains the English lecture-room, one room for drawing, twenty-eight dormitories and the Greek lecture-room. The OLD WEST BUILDING contains four lecture rooms, the historical museum and twenty-four dormitories. PERSON HALL contains the chemical laboratories, museums, and lecture-room. GERRARD HALL is used for morning prayers and public lectures. SMITH HALL contains the library and the reading-room. The NEW WEST BUILDING contains the Dialectic Literary Society Hall, the Latin lecture-room, the Latin seminary room, and fifteen dormitories. The NEW EAST BUILDING contains the Philanthropic Literary Society Hall, the laboratory, lecture-room and museum in biology, the laboratories, lecture-rooms and museums in mineralogy and geology, and fifteen dormitories. The MEDICAL BUILDING contains equipment for dissecting, and is isolated from the others. MEMORIAL HALL is used for Commencement exercises and contains marble tablets in memory of the illustrious dead of the University. The GYMNASIUM is rented by the University for athletic training. An INFIRMARY for the sick will be erected before Sept., 1894. There are LABORATORIES for practical work in chemistry, biology, natural philosophy, mineralogy and geology. The LIBRARY contains thirty thousand volumes and five thousand pamphlets. It is open ten hours daily and is used not merely for general culture, but for special training and original research. The READING-ROOM contains sixty-five of the leading magazines, reviews and journals. It is open ten hours daily. The UNIVERSITY CAMPUS contains forty-eight acres of land, affording ample ground for the buildings and for all sorts of athletic sports. Contiguous to the campus the University owns five hundred acres of forest land, which is partly laid off into walks and drives.

## DISCIPLINE.

The University discipline is manly and self-reliant. There is no system of espionage, nor of demerits, nor of petty restraint, nor of compulsory pledges. The discipline aims to develop character by educating the conscience. The University deals honestly with students and parents, making regular and special reports as to progress in mental, moral and physical culture.

## GENERAL CULTURE.

The University endeavors to furnish such general culture outside of the lecture-rooms and laboratories as will broaden the minds and sympathies of young men and arouse their ambition. Lectures are delivered about once a month and musical entertainments are given occasionally.

## LIBRARY AND READING ROOM.

The Library contains thirty-two thousand volumes and seven thousand pamphlets, exclusive of the eight thousand volumes and pamphlets of the Mitchell Scientific Society. Students have access to the library for ten hours each day. There are special libraries for the different University courses, which afford opportunities for original research.

The reading room contains reviews and journals of this and foreign countries. The leading dailies of the country are found here.

## TERMS AND VACATIONS.

**The Annual Commencement** is held the first Wednesday in June. The first term begins the first Thursday in September and continues until Christmas. The second term begins the Thursday after the first Monday in January and continues until the Commencement. The first exercise of each term is morning prayer at the Chapel. There is a Summer vacation of three months and a Christmas recess of ten days.

## EXPENSES.

Every effort is made to reduce to the lowest point the necessary expenses of an education at the University. The annual charges are:

| | |
|---|---|
| Tuition | $60.00 |
| Registration | 10.00 |
| Medical Fee | 5.00 |
| Gymnasium Fee | 2.50 |
| Library Fee | 4.00 |
| Total per annum | $81.50 |

Students taking courses in the laboratories are charged a small fee for material consumed. The library fee is only two dollars for members of the Dialectic and Philanthropic societies. A schedule of room fees may be had of the Bursar. The University rooms are not furnished. The price of board is from eight to thirteen dollars a month. The entire annual expense need not exceed three hundred, and it may be reduced to two hundred dollars.

## AID FUNND.

**1. The Deems Fund.** This fund was instituted by the late Dr. C. F. Deems, formerly a professor in this University and lately pastor of the Church of the Strangers, New York, as a memorial of his son, Lieutenant Theodore Disosway Deems. It is intended to assist needy students by loans. In 1881 it was greatly enlarged through the munificence of Mr. William H. Vanderbilt. On the first of February, 1894, there were notes, the principal of which amounted to $15,800, representing current loans to students. To that date 179 students had been helped by the fund.

**2. The Francis Jones Smith Fund.** Miss Mary Ruffin Smith bequeathed to the University, as a memorial to her brother, Dr. Francis Jones Smith, a valuable tract of fourteen hundred and thirty acres of land in Chatham county, known as the Jones Grove tract, the income of which shall be used for the education of such students as the as the Faculty may designate.

**3. The Alumni Loan Fund.** Chiefly through the efforts of Charles D. McIver, President of the Normal and Industrial School for Women at Greensboro, the *alumni* have established this fund for the aid of indigent students.

## SCHOLARSHIPS.

**1. B. F. Moore Scholarships.** The late B. F. Moore, of Raleigh, bequeathed $5,000, the interest of which is to be devoted to paying the tuition of students.

**2. Cameron Scholarships.** In memory of the late Paul C. Cameron, his heirs have established ten Cameron Scholarships.

**3. Alumni Scholarships.** Chiefly through the efforts of Charles D. McIver, the University *alumni* have established ten Alumni Scholarships.

**4. Mary Ann Smith Scholarships.** Miss Mary Ann Smith, by a recent legacy, has established a large number of scholar-

ships, to be determined by the income of the fund. The principal amounts to thirty-seven thousand dollars.

**5. Thomas F. Wood Scholarships.** Mrs. Mary S. Wood has established a Medical Scholarship and a University Scholarship in memory of her late husband, Dr. Thomas F. Wood, of Wilmington.

**6 Dialectic and Philanthropic Scholarships.** The Dialectic and Philanthropic Societies have endowed two scholarships, the beneficiaries of which shall give assistance in the Library.

**7. Free Tuition.** By a recent act of the Legislature, free tuition is offered to candidates for the ministry, to the sons of ministers, to young men under bodily infirmity, and (in the teachers' courses) to young men preparing to teach.

## MEDICAL ATTENTION.

On payment of a small annual fee each student receives the careful attention of the University Physician, Dr. R. Whitehead. In this way the best medical advice is had at the least cost. Dr. Whitehead attends daily in his office in college at 8:15 A. M., in his office at his residence from 11 A. M. to 1 P. M.; and makes daily visits to students requiring attention.

## INFIRMARY.

A suitable building for an infirmary will be erected before the beginning of the next session. Thus will be furnished facilities for proper nursing in cases of severe and protracted illness, and for isolation in cases of contagious diseases.

## DEGREES.

There are four regular courses of study in the University leading to the following degrees: BACHELOR OF ARTS, (A. B.), BACHELOR OF PHILOSOPHY, (Ph. B.), BACHELOR OF SCIENCE, (B. Sc.) BACHELOR OF LETTERS, (Lit. B.). Students whose time and means permit are earnestly advised to pursue one of these regular courses.

Students not candidates for degrees may select any studies they wish, devoting their time entirely to one or two subjects, or selecting groups of such subjects as suit their tastes and purposes.

The Faculty have arranged several groups of studies for the

benefit of students desiring brief preparation for business, for agriculture, for teaching, for journalism, for the study of law or for the study of medicine.

For the degree of Master of Arts (A. M.), Master of Philosophy (Ph. M.), Master of Science (Sc. M.), Master of Letters (Lit. M.), Doctor of Philosophy (Ph. D.), Bachelor of Laws (LL. B.). See under Department of Graduate Instruction.

## COURSES LEADING TO DEGREES.

### *BACHELOR OF ARTS.*

#### First Year.

FIRST TERM.—Algebra (4)*, Latin (4), Greek (4) English (3).

SECOND TERM.—Geometry (4), Latin (4), Greek (4), English (3).

#### Second Year.

FIRST TERM.—Trigonometry (3), Latin (3), Greek (3), English(1), Chemistry or Biology or Geology, (3), German, French or History (3).

SECOND TERM.—Analytical Geometry (3), Latin (3), Greek (3), English (1), Chemistry or Biology or Geology (3), German, French or History (3).

#### Third Year.

FIRST YEAR.—Physics (3½), English (2), Psychology (3), Elective (7).

SECOND TERM.—Physics (3½), English (2), Logic (3), Elective (7).

#### Fourth Year.

FIRST TERM.—Elective (15).

SECOND TERM,—Elective (15).

### *BACHELOR OF PHILOSOPHY.*

#### First Year.

FIRST TERM.—Algebra (4), Latin or Greek (4), English (3), Physiology (3), Physics (2).

*Figures in parenthesis denote the number of recitations or lectures per week.

SECOND TERM.—Geometry (4), Latin or Greek (4), English (3), Physiography (3), Physics (2).

### Second Year.

FIRST TERM.—Trigonometry (3), Latin or Greek (3), Chemistry or Biology or Geology (3), English (1), German or French (3), History (3).

SECOND TERM.—Analytical Geometry (3), Latin or Greek (3), Chemistry or Biology or Geology (3), English (1), German or French (3), History (3).

### Third Year.

FIRST TERM—Physics (3½), Psychology (3), English (2), Elective (7).

SECOND TERM.—Physics (3½), Logic (3), English (2), Elective (7).

### Fourth Year.

FIRST TERM.—Elective (15).

SECOND TERM.—Elective (15).

## *BACHELOR OF SCIENCE.*

### First Year.

FIRST TERM.—Algebra (4), English (3), Physiology (3), History (3), Physics (2).

SECOND TERM.—Geometry (4), English (3), Physiography (3), History (3), Physics (2).

### Second Year.

FIRST TERM.—Trigonometry (3), English (1), Biology or Geology (3), Chemistry (3), Qualitative Chemical Analysis (2), German or French (3).

SECOND TERM.—Analytical Geometry (3), English (1), Biology or Geology (3), Chemistry (3), Qualitative Chemical Analysis (2), German or French (3).

### Third Year.

FIRST TERM.—Physics (3½), Psychology (3), Elective (9).

SECOND TERM.—Physics (3½), Logic (3), Elective (9).

### Fourth Year.

FIRST TERM.—Elective (15).
SECOND TERM.—Elective (15).

## *BACHELOR OF LETTERS.*

### First Year.

FIRST TERM.—Algebra (4), English (3), From the following (8): Latin (4), Greek (4), History (3), Physiology (3), Physics (2).
SECOND TERM.—Geometry (4), English (3), From the following (8): Latin (4), Greek (4), History (3), Physiography (3), Physics (2).

### Second Year.

FIRST TERM.—English (1), Elective (15) (including (6) of the following): History (3), German (3), French (3), Latin (3), Greek (3).
SECOND TERM.—English (1), Elective (15) (including (6) of the following): History (3), German (3), French (3), Latin (3), Greek (3).

### Third Year.

FIRST TERM.—English (2), History (3), German or French (3,) Psychology (3), Elective (5).
SECOND TERM.—English (2), History (3), German or French (3), Logic (3), Elective (5).

### Fourth Year.

FIRST TERM.—Elective (15).
SECOND TERM.—Elective (15).

## *SPECIAL COURSES FOR STUDENTS NOT CANDIDATES FOR A DEGREE.*

The following groups of studies are recommended to students desiring special brief preparation:

1. FOR BUSINESS: Algebra, geometry, trigonometry and surveying, political science, sociology, English, history, physiology, constitution and laws of North Carolina, constitution of the United States, physics, physiography.

2. FOR AGRICULTURE: Chemistry, agricultural and industrial chemistry, qualitative chemical analysis, physiology, biology (zoölogy and botany), practical biology, vertebrate embryology,

histology, animal morphology, mineralogy, geology, physiography, physics, algebra, geometry, trigonometry and surveying, English, history, political science, sociology, constitution and laws of North Carolina and the United States.

3. For Teaching: English language and literature (four courses), Latin, Greek, history (four courses), algebra, geometry, trigonometry and surveying, chemistry, physics, physiology, physiography, geology, political science, sociology, constitutions and laws of North Carolina and of the United States, French or German.

4. For Journalism: History and historical research (all courses,) political and social science (all courses), English language and literature (all courses), mental and moral science, chemistry, physics, astronomy, geology, constitutions of England, the United States and North Carolina.

5. For the Study of Law: The same as for Journalism, with mathematics and Latin added.

# THE GRADUATE DEPARTMENT.

## *ADMINISTRATIVE BOARD.*

THE PRESIDENT OF THE UNIVERSITY, CHAIRMAN.

PROFESSOR KEMP P. BATTLE, *History.*

PROFESSOR FRANCIS P. VENABLE, *Chemistry.*

PROFESSOR JOSHUA W. GORE, *Natural Philosophy, Secretary.*

PROFESSOR THOMAS HUME, *English and Anglo-Saxon.*

PROFESSOR WALTER D. TOY, *Modern Languages.*

PROFESSOR WILLIAM CAIN, *Mathematics.*

PROFESSOR HENRY H. WILLIAMS, *Mental and Moral Science.*

PROFESSOR HENRY V. WILSON, *Biology.*

PROFESSOR KARL P. HARRINGTON, *Latin.*

PROFESSOR COLLIER COBB, *Geology and Mineralogy.*

PROFESSOR EDWIN A. ALDERMAN, *History and Philosophy of Education.*

PROFESSOR HERBERT C. TOLMAN, *Sanskrit and Greek.*

## *ADMISSION OF STUDENTS.*

Graduates of this and other Universities and Colleges (in good standing) are admitted as students of this department. Application for admission should be made at the beginning of the college year. Other persons of suitable age and attainments may also be admitted without becoming candidates for a degree.

Graduate students are requested to register their names at the Bursar's office at the beginning of each session.

## STUDIES.

Instruction is given by lectures, recitations and written and oral discussion. Graduate students have the right to use and borrow books from the University Library. The library contains thirty-two thousand volumes and seven thousand pamphlets. There are the various seminary-libraries which afford opportunities for original research. The Reading Room contains sixty-

five journals, reviews and daily newspapers, besides a large number of foreign magazines.

The instructors and students frequently meet for discussions, etc., in such associations as the Elisha Mitchell Scientific Society, the State Historical Society, the Philological Club, the Shakspere Club.

The sessions correspond with those in the Undergraduate Department. (See Calendar, p. 2).

## COURSES OF INSTRUCTION.

### *I. POLITICAL AND SOCIAL SCIENCE.*

President WINSTON and Dr. BATTLE.

**1. Principles of Political Economy and Sociology.**

Open to all who have not elected it in the undergraduate department. 2h.

**2. Current Questions.**

For those who have completed course 1. Seminary methods are applied to the study of such questions as the Tariff, Money and Banking, Financial Legislation, Divorce and Crimes. Theses embodying the results of study and investigation are required of all students. 2h.

### *II. HISTORY.*

Dr. BATTLE.

**1. History Seminary.**

Original research into topics of American, or North Carolina History. Reports required weekly.

Open only to graduates and special students who have passed the undergraduate courses in American and English History with honor, or have given proofs of special fitness in this department. 3h.

**Epochs.**

Study of such periods as may be assigned by the Professor of History after consultation with the student.

**3. Theses.**

Thesis on a subject assigned by the Professor.

## *III. ENGLISH LANGUAGE AND LITERATURE.*

Professor HUME.

**1. Comparative Studies in the Classical and Romantic Drama.**

(Ward, Symonds, Schlegel). Miracle Plays and Moralities. (English text Soc'y's and Toulmin Smith's ed'ns). Chronicle Plays and Tragedies: Comedy and Pastorals: Theses.

**2. The History and Forms of Poetry.**

From Chaucer to Tennyson. Aristotle's, Sidney's, Arnold's theories. The Didactic School. The Romantic Revival. Theses.

**3. The History and Philosophy of Fiction.**

## *IV. ANGLO-SAXON AND PHILOLOGY.*

Professor HUME.

**1. The Epic.**

Beowulf. Comparative Grammar. Northern Mythology. Theses.

## *V. SANSKRIT.*

Professor TOLMAN.

**1. Rig Veda, Sutras, etc.**

Böhthingk's Crestomathie. Sanskrit Composition. Hillebrandt's Vedacrestomathie. 2h.

**2. Maha-Bharata.**

Rapid Reading in the Maha-Bharata. Fall term, 1h.

**3. Sanskrit Drama.**

One play of Kalidasa. The Prakrit portions of the play will be carefully studied with reference to phonetic combinations, forms and syntax. Spring term, 2h.

**4. Sanskrit Seminary.**

Careful interpretation of the Vedic hyms; comparison with the German translations of Grassmann and Ludwig. Frequent reference will be made to the Sanskrit commentary Sayana. The instructor will translate rapidly por-

tions of the Sanskrit epics, alternating with six books of the Laws of Manu the following year.

## *OLD IRANIAN.*

Professor TOLMAN.

**1. Ancient Persian Cuneiform Inscriptions.**

Tolman's *Persian Inscriptions* and *Supplementary Notes;* Weissbach and Bang's *Die Altpersischen Keilinschriften.* Constant reference to Bezold's *Die Achaemeniden-inschriften* (Transcription des babylonischen Textes), and to Weissbach's *Die Achaemenideninschriften Zweiter Art.* This course is not connected with any of the above, but is designed for those students who intend working in Assyriology. Spring term, 1h.

**2. Avestan. (Zend).**

Reading of the Avesta. Jackson's Avestan Series. This course is open only to those who have studied Sanskrit. 1h.

## *VI. GREEK.*

Professor TOLMAN.

**1. Herodotus.**

Rapid reading of Herodotus I. and III. Comparison of accounts with those of the ancient Persian cuneiform inscriptions. This course is associatcd with course 1 above. 2h.

**2. The Old Testament and Inscriptions.**

Reading of the Septuagint translation. Comparison of Biblical statements with those of the native inscriptions. Lectures on the history and religion of the Assyrian, Egyptian and Phoenician peoples. This course is intended to follow the above. 1h.

**3. Epistle to the Romans.**

Special reference will be given to textual criticism and interpretation. The readings of the best uncial manuscripts will be studied and the various methods and principles of interpretation compared.*

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*Omitted in 1894–'95.

**4. Pauline Epistles.**

Critical reading of the Pauline Epistles (except Romans). Comparison of the various versions (Vulgate, Syriac, etc.). The formation of the New Testament Canon. 1h.

**5. Greek Inscriptions.**

Cauer's *Delectus Inscriptionum Graecarum.* Reading of inscriptions from Crete, Delphi, Boeotia, etc., illustrating the dialect of the various divisions of Greece. Lectures on Greek Phonology and Morphology. Results of investigations in the early civilization of the Indo-Germanic peoples.* 2h.

**6. Greek Dialects.**

Pindar, Theocritus, Homer. Special study of the poetic forms of Pindar. The national games of Greece. Imitations of Theocritus. Homeric Archaeology. The Homeric question. Lectures on Comparative Greek Grammar based on Brugmann's *Grundriss der vergl. Grammatik der idg. Sprachen.* 2h.

## *VII. LATIN.*

Professor HARRINGTON.

**1. Pliny, Catullus, etc.**

(a) Pliny the younger, selected letters, specimens of other epistolary Latin. (b) Lyric poets: early lyrists, Catullus, Horace (briefly); the decadence of Latin lyric poetry, Latin hymns; investigation of special subjects. Given in alternate years with course 9. Omitted during 1894–'95. 2h.

**2. Roman Philosophy.**

Lucretius, De Rerum Natura (selections); Cicero; selections from the Academica, Tusc. Disput., De Finibus, De Natura Deorum; Seneca; lectures on the history and development of ancient philosophy. In courses 2 and 3 seminary methods are employed, and each member of the class is expected at stated intervals to present original discussions and investigations in connection with the authors read. Given in alternate years with course 3. 2h.

*Omitted in 1894–'95.

**3. Roman Satire.**

Selections from the fragments of Ennius, Lucilius and Varro; Horace, Sat. I, 10; II, 1, 3 and 5; Persius, Juvenal; Seneca, Apocolocyntosis; selections from Petronius and Martial; lectures on the origin and development of ancient satire; original research. (See under course 2). Given in alternate years with course 4. Omitted during 1894–'95. 2h.

**4. Roman Topography.**

Lectures on the development of the city of Rome and the present condition of its ancient ruins, preceded by a brief glance at the geography of the Italian peninsula. Illustrated by maps, plans, photographs, etc. Given in alternate years with course 5. 1h, first term.

**5. The Private Life of the Romans.**

Illustrated lectures on some of the more important and interesting customs and institutions of Roman every day life. Given in alternate years with course 4. Omitted during 1894–'95. 1h, first term.

**6. Latin Writing.**

Advanced exercises in the translation of English into Latin, with especial reference to style. Given in alternate years with course 7. 1h, second term.

**7. Roman Epigraphy.**

The principles of the science and the interpretation of selected inscriptions. Given in alternate years with course 6. Omitted during 1894–'95. 1h, second term.

**8. Latin Seminary.**

Critical study of some author, or literary work, or department of Roman literature. The members take turns with the Professor in the interpretation and discussion of the work in hand, and present periodically the result of their individual researches. The Seminary room contains facilities for the use of the members and a special library for consultation in connection with their work. During 1893–'94 this work was in early Latin: the interpretation, and historical and literary study of the earliest Latin inscriptions and legal and literary fragments. For 1894–'95 is proposed a critical study of the Appendix Vergiliana. 1h.

Mr. PUGH.

**9. The Roman Elegiac Poets.**

Selections from Catullus, Tibullus, Propertius, Ovid; lectures on the origin and growth of the ancient elegy; investigation of special subjects. Given in alternate years with course 1. 2h.

## *VIII. MODERN LANGUAGES.*

Professor TOY.

**1. The German Drama.**

Wide reading. Theses. Lectures. 2h.

## *IX. MENTAL AND MORAL SCIENCE.*

Professor WILLIAMS.

The work offered is a study of the Critical Philosophy. This demands at least two years. The first year is given to the Prolegomena, to the Practical Reason and to the works that prepared the way for Kant. The second year is given to the *Kritik der reinen Vernunft.*

Courses 3 and 4 of the Undergraduate work are essential to success in the above course.

## *X. MATHEMATICS.*

Professor CAIN.

In the Graduate course selected chapters on determinants, imaginaries, theory of equations, higher trigonometry, quarternions, advanced calculus and its application to mechanics and astronomy are offered, the special need of the student deciding the particular course to follow.

## *XI. CHEMISTRY.*

Professor VENABLE.

**1. Theoretical and Historical Chemistry.**

This course is open to all who have not selected it in their undergraduate work.

**2. Advanced Laboratory Work.**

Special lines of analysis are pursued or original research undertaken. Opportunity is given for advanced organic work.

A meeting is held once a week in which abstracts of the articles appearing in the various Chemical Journals are read and discussed.

**3. Special Courses.**

Of reading and study are assigned applicants for the higher degrees.

## *XII. NATURAL PHILOSOPHY.*

Professor GORE.

**1. Electricity.**

Mathematical treatment of the subject. 2h.

**2. Heat.**

The study of heat in its relations to mechanical energy. 2h.

## *XIII. BIOLOGY.*

Professor WILSON.

**1. Comparative Anatomy and Embriology of Vertebrates.**

Wiedersheim's Comparative Anatomy, Mark's translalation of Hertwig's Embryology will be used.

The work will embrace a study of the comparative anatomy and embryology of the vertebrates, special attention being paid to the anatomy of the mammal, and to a comparison of the development of teleosts with that of amphibia and birds. 3h.

**2. Research Course in Zoology.**

The aim in this course will not be to cover ground, but to initiate the student into the method of conducting an original investigation in Zoology. A special problem will be assigned, literature bearing on the question will be provided and any new results of interest will be published. 3h.

**3. Summer Course**

Marine Zoology. One month's continuous work, counting as *three hours* for half the year.

In the work of this class special attention will be paid to the development of certain marine animals (star-fish, medusae, metamorphosis of crustacea).

The Summer course will be held at Beaufort, on the coast of North Carolina.

## *XIV. GEOLOGY AND MINERALOGY.*

Professor COBB.

1. **Determinative Mineralogy.**

Lectures and laboratory work. Dana's Text-book of Mineralogy. Fall term. 2h.

2. **General Critical Geology.**

Lectures, field and laboratory work and theses. For reference: Lyell's Principles of Geology and Geikie's Text-book of Geology.

This course treats of the history of the science, and the facts in geology are considered from a critical point of view. Problems are worked out in the field and laboratory. A thesis must be complete by May 1st. 3h.

3. **Advanced Geological Field-work and Special Research.**

Problems are assigned individually and work adapted to the professional needs of the students. Seminarium once a week and individual conferences. This course may be taken with advantage in successive years. 3h.

4. **Summer Course.**

Advanced Geological Field-work and special research. Neighborhood of King's Mountain, June-July. Counts as *three hours* for half the year.

## *XV. HISTORY AND PHILOSOPHY OF EDUCATION.*

Professor ALDERMAN.

1. **History of Education.**

Culture conditions of antiquity. Williams's History of Modern Education. Educational classics: Plato, Rousseau, Spencer. 2h.

**2. Philosophy of Education.**

Laurie's Institutes. Preparation of pedagogical theses and investigation of social aspects of education. 2h.

**3. History of Ancient Civilization.**

Instruction based on Ducoudray's History of Ancient Civilization. Special attention given to beginnings of civilization. Diffusion of Greek genius and society under the empire. 2h.

**4. History of Modern Civilization.**

Instruction based on Ducoudray and Guizot. Readings from larger works. Special attention to social questions, the Christian Church and nineteenth century life. 2h.

## QUALIFICATIONS FOR CANDIDACY FOR ADVANCED DEGREES.

Students from other universities or colleges, who have not completed undergraduate courses essentially equivalent to the corresponding undergraduate courses required in this University, must make good the deficiencies and receive the Bachelor's degree from this University before they are received as candidates for advanced degrees. Candidates must make written application to the Faculty, stating the subjects which they desire to study. Application must be accompanied in each case by ten dollars to pay the registration fee.

## REQUIREMENTS OF TIME AND RESIDENCE.

Residence of one year for the Master's degree is required of all students who have not received the Bachelor's degree from this University.

The least period of residence and study for all candidates for the degree of Doctor of Philosophy is two years. This period must often be exceeded.

## MASTER'S DEGREE.

For the degree of *Master of Arts*, *Master of Philosophy*, *Master of Science*, or *Master of Letters*, the candidate must pursue at least three studies for one year. The Master's degree will be conferred only where the corresponding Bachelor's degree has been received previously. Candidates for the degree of *Master of Arts* must

include either Latin or Greek in their graduate studies. Candidates for the Master's degree in *Philosophy*, *Science* and *Letters* may select any studies desired, after consultation with the Faculty. Students who have taken the Bachelor's degree at this University may be allowed to pursue prescribed courses for the Master's degree without residence. The degree may be granted after two years of non-professional study upon satisfying the Faculty by examination, or by printed theses or monographs, that the candidate is worthy of recommendation for this degree.

## THE DOCTOR'S DEGREE.

The degree of *Doctor of Philosophy* is conferred upon those who have completed a Bachelor's course, equivalent to that required for the Bachelor's degree at this University, and having spent at least two years of resident study in pursuance of an accepted course of study, shall have passed a satisfactory final examination and presented a thesis showing the candidate's power of investigation and being an actual contribution to knowledge. The degree is given not because the candidate has studied a determinate course for a prescribed period, but on the ground of high attainments and ability in a special branch of learning. The requirements in some cases will exact of the candidate more than two years of resident study.

# DEPARTMENT OF LAW.

## *FACULTY.*

JOHN MANNING, LL. D., *Professor of Common and Statute Law and Equity.*

KEMP P. BATTLE, LL. D., *Professor of International and Constitutional Law and History.*

GEO. T. WINSTON, LL. D., *Professor of Political Economy and Social Science.*

JAMES E. SHEPHERD, LL. D., *Chief Justice of the Supreme Court of North Carolina, Associate Professor of Common and Statute Law and Equity, during the Summer Session.*

### Courses.

(A) The course prescribed by the Supreme Court of the State for applicants for license to practice law. (B) The course leading to the degree of Bachelor of Laws.

### Mode of Instruction.

Text-Books, lectures, study of leading cases and moot courts.

### Text Books.

(A) Blackstone's Commentaries, Washburn or Williams on Real Property, Schouler on Executors, Stephen on Pleading, Chitty's Pleadings (first 100 pages), Adams's Equity, 1st Greenleaf on Evidence, Smith on Contracts, Bigelow on Torts, Code of North Carolina, particularly the Code of Civil Procedure.

(B) Pollock on Contracts, Bigelow on Bills, Cheques and Notes, Morawetz on Private, and Dillon on Municipal Corporations, Best's Principles of Evidence, or Starkie on Evidence, Darlington or Smith on Personal Property, May on Insurance, Russell on Crimes or Wharton's Criminal Law. Students seeking the degree of LL. B., must have taken course (A) here, or must pass an approved examination on course (A), before they will be permitted to compete for the degree, or take up course (B).

Students competing for the degree of LL. B. in addition to the studies required in course (B) must take a course in

International and Constitutional Law, under Professor Battle, two hours per week, and a course in Political Economy and Social Science under President Winston, one hour per week.

**Lectures and Recitations.**

Course A daily, eight hours per week. Course B daily, six hours per week.

**Moot Courts.**

Held each Saturday evening for the discussion of law questions and for the trial of issues of fact by a jury, three hours per week.

**Special Lectures**

Are given by the resident Professors and members of the bar, on such subjects as have been greatly modified by our statutes or by the development of our civilization.

## DEGREE.

The degree of Bachelor of Laws is conferred upon those students taking courses A and B, and passing approved examinations on the same. Applicants for the degree must also write a thesis on some subject selected by Professor Manning. Two years will ordinarily be required to obtain this degree.

## EXPENSES.

The charges in the Law Department are one hundred dollars per session of forty weeks, which includes all University fees, except that law students rooming in college will have to pay a room fee. Students who desire may take both courses simultaneously at a charge of one hundred and fifty dollars, with five dollars for diploma fee. The charges are payable in cash, one half at the beginning of each term, in September and in January.

## *SUMMER COURSE IN LAW.*

Professors MANNING and SHEPHERD.

**Text Books.**

Are the same as those required in course A.

**Classes.**

Junior and Senior.

**Fees.**

| | |
|---|---|
| For each class - - - - - | $30.00 |
| For both classes - - - - - | 60.00 |

**Sessions.**

The regular session begins and ends with the University session.

The Summer session begins July 1st., and ends Thursday before the last Monday in September.

## MOOT COURTS.

COURT OF APPEALS.

*Judge*, PROFESSOR JOHN MANNING.

SUPERIOR COURT.

| | |
|---|---|
| *Judge*, | CLAUDIUS DOCKERY. |
| *Associate Justice*, | F. C. HARDING. |
| *Clerk*, | A. B. ANDREWS, Jr. |
| *Sheriff*, | J. E. FOWLER. |

The moot court is an important factor in legal educational methods; it familiarizes the student with the practical side of law. It is the purpose of the University court to acquaint the student with the legal details so necessary to be acquired yet so difficult of access. Regular sessions are held and every student in the law department has frequent opportunities for practice. The work is thorough and carried on from the inception of the suit to the final judgment in the Appellate Court.

# DEPARTMENT OF MEDICINE.

## *FACULTY.*

RICHARD H. WHITEHEAD, M. D., *Professor of Anatomy, Physiology and Materia Medica.*

F. P. VENABLE, Ph. D., *Professor of Chemistry.*

J. W. GORE, C. E., *Professor of Physics.*

HENRY V. WILSON, Ph. D., *Professor of Biology.*

Our Medical Colleges of the best grade fail, as a rule, to furnish thorough instruction in those subjects which constitute the foundation of medical science, and which are therefore necessary to the intelligent practice of the medical profession. While possessing every facility for instruction in the higher branches, the very numbers in attendance upon these colleges present an obstacle to the correct teaching of the fundamental branches which is seldom overcome. For example, it is impossible to properly teach anatomy to a class numbering five or six hundred members, since only those students who occupy the front benches of the ampitheater are near enough to *see* what the lecturer is demonstrating. If they would learn in the dissecting halls, they must do so practically unaided. We thus understand why it is that of the candidates who come before the North Carolina Board of Medical Examiners for license only about 33 per cent, on an average, pass its comparatively easy examination upon Anatomy. On the other hand, the practice of reading a year under a physician before atlending a Medical College is a custom honored only by time. The absence of dissecting material and other facilities for practical work, the impossibility of regular instruction by a busy practitioner, and the fact that the practitioner is often unavoidably "rusty" upon just these elementary branches, all conspire to render the year of reading little better than useless. There is, therefore, need of a good preparatory school, and it was in the conviction that such a school could accomplish much good that the Medical department of the University of North Carolina was established. Let the student be first well grounded in the elements of medicine, and then he will be in a position to enjoy with intelligent appreciation the clinical advantages which the diploma-granting colleges possess. The course of study embraces the following branches:

## *I. CHEMISTRY.*

Professor VENABLE.

The facts and general principles of Chemistry are presented in the following order: 1. Chemical Physics. 2. Chemistry of the Non-Metals and Metals. 3. Organic Chemistry. Instruction is given mainly by lectures, and these are illustrated by numerous experiments. Three lectures a week throughout the year. Students who have previously studied Chemistry may take the laboratory courses in Quantitative and Qualitative Analysis.

## *II. PHYSICS.*

Professor GORE.

This constitutes, in a brief way, the more important part of the whole subject of Physics. Two hours a week throughout the year.

## *III. HISTOLOGY.*

Professor WILSON.

Instruction is given by means of the microscope and sections of the various tissues. The class devotes one afternoon a week throughout the year to practical microscopic work in the Biological Laboratory.

## *IV. ANATOMY, PHYSIOLOGY AND MATERIA MEDICA.*

Doctor WHITEHEAD.

**Anatomy.**

Conceptions of Anatomy gained from books and plates are misleading and evanescent. The only way by which true and useful knowledge of the subject may be imparted is the so-called object-lesson method of teaching. The student must see and verify for himself the truths of Anatomy as they exist in nature, and not in pictures; he must dissect, and study the dissected cadaver, and that, too, under a competent instructor, who is willing to give his time to the work. To this end a new dissecting hall has been erected, and a State law insures material for dissection in plenty. In addition to dissecting, the student is required to stand

certain practical examinations upon the skeleton and cadaver, the better to impress the truths previously learned and to obtain familiarity with the relations of the various structures.

**Physiology.**

The method of instruction is by means of daily lectures and examinations. Especial attention is given to the physiology of the nervous and digestive systems, and the practical bearings of physiological facts indicated.

**Materia Medica.**

Under this head are embraced the study of the geographical and botanical sources of the principal drugs, their chief preparations and doses, and especially their physiological action. Written examinations are held upon these subjects in the order of their completion. Anatomy being first studied, then Physiology, and finally Materia Medica.

The course lasts nine months. It does not necessarily either lengthen or shorten the time usually devoted to medical education.

**Text Books.**

Gray's Anatomy, Yoe's Physiology, White's Materia Medica, Shæfer's Histology.

## EXPENSES.

The charges in the Medical Department are one hundred dollars per session of forty weeks, which includes all tuition, laboratory and other fees, excepting that medical students who room in the college must pay a room fee. The charges are payable in cash, one-half at the beginning of each term, in September and in January.

Board, $8.00 to $12.00 per month. Students desiring rooms in the University buildings are advised to enter early, as, owing to the increase in the numbers of students, rooms are not easy to obtain.

**Thomas F. Wood Scholarship.**—In memory of the late Dr. Thomas F. Wood, as well as in grateful recognition of the gift of his valuable library to the University, a scholarship known as the Thomas F. Wood Medical Scholarship has been established. It entiles the holder to free tuition, and it is awarded only to the needy and worthy.

# SUMMER SCHOOL.

## CORPS OF INSTRUCTION.

### *ACADEMIC DEPARTMENT.*

GEORGE TAYLOE WINSTON, LL. D.,
(President of the University,)
*Political and Social Science.*

KEMP PLUMMER BATTLE, LL. D.,
(Professor of History, University of North Carolina.)
*History and Civics.*

JOSHUA WALKER GORE, C. E.,
(Professor of Applied Mathematics, University of North Carolina.)
*Algebra and Geometry.*

WALTER DALLAM TOY, M. A.,
(Professor of Modern Languages, University of North Carolina.)
*French and German.*

HENRY VAN PETERS WILSON, PH. D.,
(Professor of Biology, University of North Carolina.)
*Biology.* (at Beaufort, N. C.)

COLLIER COBB, A. B.,
(Professor of Geology and Mineralogy, University of North Carolina.)
*Geology.* (at King's Mountain.)

C. ALPHONSO SMITH, PH. D.,
(Professor of English Language and Literature, University of Louisiana.)
*English Language and Literature.*

WILLIAM JAMES BATTLE, PH. D.,
(Professor ot Greek, University of Texas.)
*Greek and Latin.*

JOSEPH AUSTIN HOLMES, B. S.,
(State Geologist.)
*Road Construction.*

THOMAS ROSWELL FOUST, B. E.,
(Instructor in Mathematics, University of North Carolina.)
*Road Construction and Land Surveying.*

### *DEPARTMENT OF PEDAGOGICS.*

EDWIN ANDERSON ALDERMAN, PH. B.,
(Professor of Pedagogy, University of North Carolina.)
*History of Education and Methodology.*

PHILANDER PRIESTLY CLAXTON, A. M.,
(Professor of Pedagogics, State Normal and Industrial School.)
*Psychology and Methodology.*

M. C. S. NOBLE,
(Superintendent Wilmington Public Schools.)
*Methods in Arithmetic and Geography.*

ALEXANDER GRAHAM, A. M.,
(Superintendent Charlotte Public Schools.)
*Methods in Language and Grammar.*

DIXIE LEE BRYANT, B. S..
(Professor of Geology and Botany, State Normal and Industrial School.)
*Physical Geography and Botany.*

CADDIE FULGHUM,
(Goldsboro Public Schools.)
*Drawing and Methods in Primary Reading.*

ELIZA POOL,
(Raleigh Public Schools.)
*Methods in Elementary Latin.*

## EXECUTIVE COUNCIL.

GEORGE TAYLOE WINSTON, *President of the University.*
EDWIN ANDERSON ALDERMAN, *Superintendent of School.*
JOSHUA WALKER GORE, *Registrar.*

## GENERAL STATEMENT.

The resources of the University should be made accessible, as far as possible, to those who are not able to attend its regular sessions. A practical scheme of University extension is thus afforded to teachers and students by which they may be taught by experts in the different departments of work, with free access to the University libraries, museums, and laboratories. In recognition of this fact the University of North Carolina, in its Summer School for 1894, offers instruction in the following subjects:

Latin,
Greek,
French,
German,
Anglo-Saxon,
English Literature,
Pedagogics,
Language Work,
Grammar,
Algebra,
Geometry,
Geology, (at King's Mountain)
History,
Civics,
Political and Social Science,
Land Surveying,
Road Construction,
History of Education,
Geography,
Botany,
Drawing,
Primary Reading,
Arithmetic,
Biology, (at Beaufort)

The courses are open to both sexes and, while not excluding any who are seeking higher training, are primarily intended for teachers.

In all the instruction given, academic and professional, constant emphasis will be laid upon the pedagogic basis of the subject, the rational method of presenting it to the learning mind and its proper place in an orderly school-curriculum.

Every opportunity will be given for private reading and original research, under intelligent guidance, in the Library of the University. Addresses will be given from time to time by the Faculty and eminent educators from this and other states.

The sessions of the School will be held in the University buildings. The work will be carried on by lectures, text-books, parallel readings and topical reports, each instructor devoting a certain portion of his time to conference with teachers and students concerning their special needs. An average of twenty lessons will be given in each subject.

A fee of $5.00, to be paid upon registration, will cover all charges for tuition, and will admit any one to all the advantages of the school.*

Board and furnished rooms at hotels for $15.00 per month. Cheaper rates may be obtained at clubs and certain private houses upon application to the superintendent.

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*In the Schools of Geology and Biology the charge will be $10.00 covering laboratory fees. The sessions of these schools will begin on June 14.

# UNIVERSITY LIBRARY, LABORATORIES, GYMNASIUM.

## *I. THE LIBRARY.*

### OFFICERS.

PROFESSOR ALDERMAN, *Librarian.*
F. C. HARDING, *Assistant Librarian.*
BENJAMIN WYCHE, *Cataloguer.*

The University Library numbers 32,000 bound volumes and 7,000 pamphlets, exclusive of the 8,000 volumes and pamphlets of the Mitchell Scientific Society. It is arranged in twenty-two sub-divisions, of which these are the chief:

| | |
|---|---|
| Reference, | Mythology and Art, |
| Political and Social Science, | Modern Languages, |
| Poetry and Drama, | Jurisprudence, |
| Religion and Theology, | Biography and Memoirs, |
| Latin, Greek and Sanskrit, | Education, |
| Medicine and Hygiene, | Fiction, |
| History, | Science, |
| Philosophy, | Mathematics, |
| Literature and Language, | Public Documents. |

It has recently been enriched by a valuable collection of 1,300 volumes and 2,000 pamphlets in medicine and hygeine, the gift of the late Thos. F. Wood, M. D.

At a recent meeting of the Board of Trustees, the Dialectic and Philanthropic Societies made a donation of their valuable collection of over 20,000 volumes to the library, and provided for its perpetual endowment. The official title of the Library is now

**The Library of the University of North Carolina Endowed by the Dialectic and Philanthropic Societies.**

The funds available for the increase of the Library are expended semi-annually under the direction of the Librarian and the Library Committee with special reference to the instruction here given. The books are carefully arranged, catalogued by subject and author, and the students of the University are allowed free access, under necessary limitations, to the book shelves. Facili-

ties are provided for the use of the books, and the Assistant Librarian will be in constant attendance to give each applicant assistance in any line of research or reading. The valuable power to use books may thus be acquired. The Reading-room and library-table are supplied with the best foreign and American periodicals and the leading newspapers of the state and nation. The Library and Reading-room are open every day, except Sunday, from 8:30 A. M. to 6:00 P. M.

## *II. BIOLOGICAL LABORATORY.*

### Officers.

PROFESSOR WILSON AND MR. R. P. JENKINS, *Assistant.*

The Biological Laboratory is well lighted, and is provided with running water and aquarium tables. The equipment is modern, and includes a large number of Zeiss microscopes, dissecting microscopes, microtomes, paraffine bath, and incubator. The laboratory possesses a very serviceable collection of zoological museum specimens, both alcoholic and dried. It has also an extensive collection of the flowering plants of the state. Students engaged in advanced work have access to a collection of microscopic preparations, illustrating the anatomy and development of sponges, the anatomy and development of corals, the histology of medusae, the development of teleosts, and other subjects of morphological interest. Besides classical treatises and the most valuable books of reference, some of the more important biological journals are at hand, such as the Journal of Morphology, Zoologischer Anzeiger, Zoologisches Centralblatt, Journal of the Royal Microscopical Society, etc.

## *III. CHEMICAL LABORATORY.*

### Officers.

PROFESSOR VENABLE, MR. BASKERVILLE, MR. KENAN.

A separate building is devoted to the Chemical Laboratories. All of the rooms are conveniently grouped on one floor. Light and ventilation are secured by numerous large windows, 5x 10 feet in size. The height of the rooms is twenty feet and they afford about six thousand square feet of floor space. There is a large auditorium, a qualitative laboratory, quantitative labora-

tory, assay-room, store-room, laboratory for general experiment, polariscope room, balance rooms and library. These are provided with gas and water and the most essential furnishing.

## *IV. PHYSICAL LABORATORY.*

### Officers.

PROFESSOR J. W. GORE, MR. C. H. WHITE.

The laboratory is well provided with apparatus for illustrating the General courses in physics, also with standard instruments of precision for electrical testing and measurements. An electric light plant has been installed, chiefly for instruction in electrical engineering. A work-shop in connection with the laboratory is provided with a small steam engine, lathe for wood and metal and the necessary tools and material for repairing and making apparatus.

## *V. GEOLOGICAL LABORATORY.*

### Officers.

PROFESSOR COLLIER COBB, MR. ————.

The laboratory is supplied with working collections of minerals and rocks, with microscopic sections of most of the rocks of the state, and with two microscopes, one of them manufactured expressly for the University for petrographical work. On the same floor is located the department library, and adjoining this is a large room containing a collection of more than two thousand specimens of typical rocks and minerals from various European localities, and a complete set of the minerals of North Carolina.

## *VI. GYMNASIUM.*

### Director.

GEORGE H. STEPHENS.

This building was erected by the alumni and friends of the University for the use of the students. It has been fitted up with apparatus by the University. The main room is 100 feet long by 45 feet broad and affords ample room for several classes or sections to exercise at one time. Two large dressing rooms with

lockers are provided and a glass trophy case in which the athletic prizes can be exhibited.

The general supervision of the gymnasium is in the hands of a committee of two members of the Faculty. Exercise in some form, gymnasium drill, ball playing, running or tennis is required three hours a week of all except members of the senior class. Out-door sports are encouraged as being most beneficial to the students and very helpful in the discipline and other matters of college life.

# UNIVERSITY ORGANIZATIONS.

## *I. THE ELISHA MITCHELL SCIENTIFIC SOCIETY.*

### Officers.

PROFESSOR J. A. HOLMES, *President.*
PROFESSOR J. W. GORE, *Vice-President.*
PROFESSOR F. P. VENABLE, *Secretary and Treasurer.*

This society holds monthly scientific meetings during the session. It has been established for the encouragement of scientific work, and it includes among its members nearly all students and workers throughout the State who are interested in science.

The monthly meetings afford excellent opportunities for the students to hear, read and discuss papers on scientific subjects. The meetings are open to all. The society issues its Journal twice a year. Past issues have contained many articles from students of the University.

The society's library contains now about ten thousand books and pamphlets. Students have access to these, and can make use of them under certain restrictions.

## *II. THE NORTH CAROLINA HISTORICAL SOCIETY.*

### Officers.

PROFESSOR KEMP P. BATTLE, *President.*
PRESIDENT GEO. T. WINSTON, } *Vice Presidents.*
PROFESSOR EDWIN A. ALDERMAN, }
MR. HOLLAND M. THOMPSON, *Secretary.*

This Society was founded in 1842 by the Hon. David L. Swain, LL. D., President of the University. Under his leadership it became the center of historical work in the State and the medium of many notable contributions to State history. On March 22, 1875, through the activity of Doctor Battle, the Society was chartered by act of General Assembly. The purpose of the Society is to collect, classify, investigate and publish material illustrative

of the History of the State. It possesses a valuable collection of books, pamphlets, manuscripts, newspaper files, coins and objects of historic interest. The educational aim of the Society is to create a love of historical study and to give training in scientific methods of historical investigation. To this end meetings are held monthly in the historical lecture room at which papers, based on original research, are read and discussed. All the students are eligible to membership. The following are some of the papers that have been read before the Society:

The Colonial and Post-Revolutionary Legislation for the Location of the Seat of Government in North Carolina. Professor Kemp P. Battle.

The Early History of the City of Raleigh. Professor Kemp P. Battle.

The Tuscarora War in North Carolina. Mr. H. M. Thompson.

The Life and Public Services of Col. Waightstill Avery. Howard A. Banks.

Slavery Legislation in Colonial Carolina. Professor Edwin A. Alderman.

Life and Services of Gen. Joseph Graham. L. C. Van Noppen, A. M.

North Carolina in the French and Indian War. F. L. Wilcox, A. B.

## *III. THE SHAKSPERE CLUB.*

### Officers.

PROFESSOR THOMAS HUME, *President.*
PROFESSOR H. C. TOLMAN, *Vice-President.*
MR. J. T. PUGH, *Secretary.*
MR. H. HORNE, *Assistant Secretary.*
MR. J. SAWYER, *Treasurer.*

Professor Alderman, Mr. Rollins, Mr. Wilson, Mr. Gillespie constitute with the above the Executive Committee.

The Shakspere Club was organized in October, 1882, by Dr. Thomas Hume, Professor of English, for the especial purpose of giving impulse and guidance to scholarly investigation of the great dramatist. But an important aim was to offer opportunity for comparative studies in the dramatic literature of ancient and foreign languages and also to excite interest in the art of literary composition. Seminary methods are pursued by advanced students and the results embodied in elaborate papers. The Club

has a small, but valuable collection of special reference books, additions to which are earnestly solicited from generous friends. The character and range of subjects discussed are best suggested by selections from past programmes.

King Lear, 1. Sources of the Plot. Robert of Gloucester's Chronicle. The Shaksperian plays on the subject. 2. The Sub-Plot of Gloster and his Sons. 3. The Comic element in Modern tragedy. 4. Difference between the ancient and the modern treatment of ethical questions. 6. Method of characterization.

Lectures have been delivered, or valuable papers read, on special occasions, on such subjects as the following:

Shakspere as a Moral Teacher. Mephistopheles and Iago. Shakspere: Use of Legal Knowledge and Forms. Shaksperian Side-Lights on Old English Life. Black's Judith Shakspere: A Picture of the Dramatist's Home Life in his latest Period. The History of Dramatic Blank-verse and its Artistic Transformation by Shakspere. Schiller's Macbeth compared with Shakspere's. Greek Tragedy. Moliere's *Les Recieusis* and Shakspere's Euphuism. A Comparison of Ethical Teaching in the Classical and the Modern Drama. Progressive Art of Shakspere in the Delineation of Women.

## *IV. THE PHILOLOGICAL CLUB.*

### Officers.

PROFESSOR THOMAS HUME, *President.*
PROFESSOR WALTER D. TOY, *Vice-President.*
PPOFESSOR KARL P. HARRINGTON, *Secretary.*

The object of this club is the presentation of papers of a philological nature and informal reports on topics in the field of philological science. All persons giving instruction in ancient or modern languages and graduate students working in the languages are eligible to membership. Meetings are held once a month. During the present year these meetings have consisted of informal discussion, the formal presentation of papers embodying the results of original work and the regular review of philological journals. Some of the papers presented are the following:

1. *Some Disputed Passages in Tibullus.* Professor Harrington.

2. *Does the Saturnian verse of Nævius show an advance beyond that of Livius Andronicus?* Professor Harrington.

3. *The Influence of Latin Syntax on English.* Professor Hume.

4. *The Historical Development of the Causative Construction with* FAIRE, *etc., in French.* Professor Toy.

5. *Explanation of "irregular" accent in the so-called 2nd Aorist infinitive and participle in Greek.* Professor Tolman.

6. *Greek Inscriptions of Cyprus. Comparison of Cypriote and Hittite Syllabaries.* Professor Tolman.

7. *Some studies in the Diction of Persius.* Mr. Pugh.

## *V. YOUNG MEN'S CHRISTIAN ASSOCIATION.*

**Officers for 1893-'94.**

GEO. G. STEPHENS, *President.*
H. H. HORNE, *Vice-President.*
J. A, BUTT, *Recording Secretary.*
H. HOWELL, *Corresponding Secretary.*

Membership, 160. Average attendance, 60.

The Association holds a fifteen minute service on the evening of each Monday, Tuesday, Wednesday and Thursday. It also arranges for monthly sermons by leading ministers of all denominations, as well as for missionary meetings, lectures, etc. A half hour lecture is delivered each Sunday morning before the Association by Dr. Kemp P. Battle, Professor of History in the University, on some historical topic connected with Bible study. The members of the Association who desire to do so form classes for mutual help in the private systematic study of the Bible.

On Saturday following the opening of the session in September the Association gives its annual reception to new students entering the University.

## *VI. LITERARY SOCIETIES.*

The Dialectic and Philanthropic Literary Societies were organized at the same time as the University, in 1795. Their existance has been inseparably linked with the University, and they have shown remarkable power in developing character as well as in training the intellect. They offer unusual facilities for practice in debate, oratory, declamation and essay writing; and their members become practically familiar with parliamentary law and usages. Each society owns a large. handsomely equipped hall and many oil portraits of illustrious members.

It is customary for students from the East to join the Philanthropic Society, while those from the West join the Dialectic. Each Society meets once a week, and conducts regular exercises.

## *VII. THE BLACKSTONE CLUB.*

### Officers.

GUY CARLETON LEE, *President.*
FRANK B. BENBOW, *Secretary.*
HON. JOHN MANNING, LL. D., *Honorary President.*

EXECUTIVE COMMITTEE.

G. C. Lee, *Chairman, ex officio*; John T. Benbow; J. R. Price; Zeb. B. Sanders; E. D. Stanford.

The Club aims to furnish its members ample opportunities for comprehensive review prior to examination; to supplement the law course with special investigations of subjects therein suggested; to carry on a line of reading collateral thereto, and also to offer a course of lectures on legal topics. The courses for 1893-1894 were given by Mr. Lee, the president of the club. The library of the club has a substantial nucleus of valuable works. Some of the lectures during 1893-'94 were: "Ancient Irish Law and its Relation to English Common Law," "The Laws of Manu (Sanskrit) as a Source of Modern Jurisprudence," and "Phoenicia and its Mercantile Law.

## *VIII. THE UNIVERSITY PRESS.*

HON. JOHN MANNING, LL. D.. *President.*
PROFESSOR COLLIER COBB, *Secretary.*
PROFESSOR JOSHUA WALKER GORE, *Treasurer.*

EXECUTIVE COMMITTEE.

Collier Cobb, Joshua Walker Gore, Francis Preston Venable, Richard Henry Whitehead, Edwin Anderson Alderman.

FOREMAN.

Zachary Taylor Broughton.

### Publications of the Press.

Each department of the University issues through the University Press papers on subjects relating to the department, in addition to the following regular publications:

1. Catalogue of the University of North Carolina. *Annual.*
2. Announcement of Courses. *Annual.*

3. University Education. What it Means and How to get it. *Annual.*
4. Announcement of the Summer Schools. *Annual.*
5. Journal of the Elisha Mitchell Scientific Society. *Semi-annual.*
6. Journal of the Shakspere Club. *Annual.*
7. North Carolina Historical Society papers. *Annual.*
8. The University Magazine.* *Monthly* from October to May.

## *ALUMNI ASSOCIATIONS.*

### The Central Association.

Thomas S. Kenan, President; H. A. London, Josephus Daniels, Secretaries; Charles D. McIver, Treasurer.

### Branch Associations.

WAKE COUNTY—E. B. Haywood, M. D., President; Alexander Stronach, Secretary.

GOLDSBORO—W. G. Lewis, President; J. Y. Joyner, Secretary.

WILMINGTON—D. G. Worth, President; M.C. S. Noble, Secretary.

CHARLOTTE—William Johnston, President: Heriot Clarkson, Secretary.

WASHINGTON—William B. Rodman, Jr., President; H. A. Latham, Secretary.

DURHAM—Julian S. Carr, President; James S. Manning, Secretary.

CRAVEN COUNTY—John S. Long, LL. D., President; James Thomas, Secretary.

WINSTON—John W. Fries, President; A. H. Eller, Secretary.

HIGH POINT.—James A. Delke, President; E. M. Armfield, Secretary.

ASHEVILLE—John D. Cameron, President;, J. L. Carroll, D. D., Vice-President; Charles A. Webb, Secretary.

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*Controlled by the Dialectic and Philanthropic Literary Societies.